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OM nucleic - nucleic search, using sw model					
Run on:	August 10, 2004, 13:51:42 ; Search time 1294 seconds (without alignments)				
Title:	US-09-875-228-1_COPY_5976_9620				
Perfect score:	3645	11966.524 Million cell updates/sec			
Sequence:	1 ggccctcaataatgttaäg.....ggaggaggctgtggactggc 3645				
Scoring table:	Oligo_NUC Gapop_60.0 , Gapext 60.0				
Searched:	3373863 seqs, 2124099041 residues				
Word size :	150				
Total number of hits satisfying chosen parameters:	17				
Minimum DB seq length: 0					
Maximum DB seq length: 2000000000					
Post-processing: Listing first 250 summaries					
Database :	N_Geneseq_29Jan04:*				
	1: geneseqn1980s:*				
	2: geneseqn1990s:*				
	3: geneseqn2000s:*				
	4: geneseqn2010as:*				
	5: geneseqn2001bs:*				
	6: geneseqn2002bs:*				
	7: geneseqn2003as:*				
	8: geneseqn2003bs:*				
	9: geneseqn2003cs:*				
	10: geneseqn2004s:*				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.					
SUMMARIES					
Result No.	Score	Query Match	Length	DB ID	Description
1	3645	100.0	12047	2 AAV17618	Aav17618 Homo sapi
2	3645	100.0	12047	2 AAZ06489	Aaa06489 Human gla
3	3645	100.0	12047	3 AAZ99834	Aaa99834 DNA, sequ
4	3645	100.0	12047	3 AA46852	Aaa46852 Nucleotid
5	3645	100.0	12047	5 AAH43617	Aaa43617 Human gla
6	3645	100.0	12047	5 AAP87248	Aaa87248 Human gla
7	3645	100.0	12047	6 ABK99584	Abk99584 Mucin tra
8	3645	100.0	12047	7 AC07307	Ac07307 Human gla
9	3400	93.3	12047	2 AAX24755	Aax24755 Human gla
10	1172	32.2	1172	2 AAX24772	Aax24772 Human gla
11	1172	32.2	1172	2 AAZ06194	Aaz06194 hKLK2 enh
12	1114	30.6	1558	3 AAZ94285	Aaz94285 Human pro
13	993	27.2	1172	2 AAX24774	Aax24774 Human gla
14	993	27.2	1172	2 AAX24773	Aax24773 Human gla
15	993	27.2	1172	2 AAZ06195	Aaz06195 hKLK2 enh
16	993	27.2	1172	2 AAZ06196	Aaz06196 hKLK2 enh
17	204	5.6	204	5 AAF82694	Aaf82694 Glandular
Sequence 12047 BP; 3051 A; 2484 C; 2869 G; 3643 T; 0 U; 0 Other;					
Query Match 100.0%; Score 3645; DB 2; Length 12047;					
Best Local Similarity 100.0%; Pred. No. 0;					
Matches 3645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY 1 GGCCCTCAATAATTGTTAAGAGTGTAAATGTCGAAAGATGGAAATGTTGAGACTA 60					
ALIGNMENTS					
RESULT 1					

Db	5976	GGCCCTCAATAATTGTAAGTAAATGTTAGACTT	7056	CTGAACTTTAGTACTTAGCCCTCCAGAGCTCTACAGCTGATAGGCCTGTAAACCAACATT	7115
Qy	61	CTGTGCCAGAGATTTCCTCAGTTCTAGAGTGTGGAAATATAGAAACCTGGCTTGCTT	1141	GTCACCATATAATCACAATTGTTAGACTTACCGTAGTGGCCCAAGGTCCCGTGTAAACACAG	1200
Db	6036	CTGTGCCAGAGATTTCCTCAGTTCTAGAGTGTGGAAATATAGAAACCTGGCTTGCTT	7116	GTCACCATATAATCACAATTGTTAGACTTACCGTAGTGGCCCAAGGTCCCGTGTAAACACAG	7175
Qy	121	CTTCAGCCCTGAAATTAGGAAATTAGGAACTGGCTTGAGCTGAAGTTGG 180	1201	GCACTCTAACAGGGGGATATTCAAAGCTTAAAGAGATGACCTTACAGGAGCTGATGTC	1260
Db	6096	CTTCAGCCCTGAAATTAGGAACTGGCTTGAGCTGAAGTTGG 155	7176	GCACTCTAACAGGGGGATATTCAAAGCTTAAAGAGATGACCTTACAGGAGCTGATGTC	7235
Qy	181	GTTGGTTCCGGACAAATTGGCAACTGTTGCACITGTTGGGTGGTATTGC	1261	AAAGACCTGGOCTCTTGGCAAGAGAACTCCCTAACGGCACACTCTCTTCACAGGGTT	1320
Db	6216	TCTGATCTCAATTGGCAACTGTTGCACITGTTGGGTGGTATTGC	7236	AAAGACCTGGOCTCTTGGCAAGAGAACTCCCTAACGGCACACTCTCTTCACAGGGTT	7295
Qy	301	ATTACCTTGGAGTGGACATTCAGCTGGCTTGAGCTGGATCTGTTAGT	7295	GTGACTCTPATGTTGNTCTAACATGGTACTGTGTTAGGATGGCTTACAGCTTCAAG	1440
Db	6276	ATTACCTTGGAGTGGACATTCAGCTGGCTTGAGCTGGATCTGTTAGT	7356	GTGACTCTPATGTTGNTCTAACATGGTACTGTGTTAGGATGGCTTACAGCTTCAAG	7415
Qy	361	CAGTGAACCGGTCTGGCATTCACITCTATACTACAGTGGCTATCTTGGTCCATGTT	7356	CACTACAGATGGCTCATCPATCTCACACATGGCTACAGGTGGGACTACTAGCCCT	1500
Db	6336	CAGTGAACCGGTCTGGCATTCACITCTATACTACAGTGGCTATCTTGGTCCATGTT	7416	CACTACAGATGGCTCATCPATCTCACACATGGCTACAGGTGGGACTACTAGCCCT	7475
Qy	421	CAACAAAACACCGATAAACCTAGAACCTTCCCACTTCCAGCTGAAATGTTAA	7476	ATTGACAGAGGAAGGACTGTGTTAGAAGGGGTGACCATAGAGCTTCTGTTCT	1560
Db	6396	CAACAAAACACCGATAAACCTAGAACCTTCCCACTTCCAGCTGAAATGTTAA	7476	ATTGACAGAGGAAGGACTGTGTTAGAAGGGGTGACCATAGAGCTTCTGTTCT	7535
Qy	481	ACCTAGGATTTCTGTTTAATAGGTTCATGAAATTTCAGCTGATCACTTACAT	1561	GGATCAAAGGGGTCACAGGGACCATAGATGACATGTTCTGAGAAATAATTGGCTGG	1620
Db	6456	ACCTAGGATTTCTGTTTAATAGGTTCATGAAATTTCAGCTGATCACTTACAT	7536	GGATCAAAGGGGTCACAGGGACCATAGATGACATGTTCTGAGAAATAATTGGCTGG	7595
Qy	541	TCCCTCTACCGTTATTCACCCACCTPAAATAGCATCCCCAATATTCCTGCAAT	7536	ATGTCCTGCCCCGAAAGGGGATGCAATTCTGACCCCTATTCAGATCTTCACT	1680
Db	6516	TCCCTCTACCGTTATTCACCCACCTPAAATAGCATCCCCAATATTCCTGCAAT	7596	ATGTCCTGCCCCGAAAGGGGATGCAATTCTGACCCCTATTCAGATCTTCACT	7655
Qy	601	CTACCTTATATGGTAAATCTGGCTTCTAGTGCATTAACATACCTGATTAA	1681	TTGAGCTTATCTCAGACCTCTCATGATGAACTTCTGACCTTCTGTTCTGTTCC	1740
Db	6576	CTACCTTATATGGTAAATCTGGCTTCTAGTGCATTAACATACCTGATTAA	7656	TTGAGCTTATCTCAGACCTCTCATGATGAACTTCTGACCTTCTGTTCTGTTCC	7715
Qy	661	CATCTCTTACTTAAAGGGAAATAAGGCTCCTCTCGACAGTTCTCAAGA	1741	TCTCCCTCTCTCATGCTACTGCCACCTCTCCAGCTCTCCAGTCTGCTGCTG	1800
Db	6636	CATTCTTACTTAAAGGGAAATAAGGCTCCTCTCGACAGTTCTCAAGA	7716	TCTCCCTCTCTCATGCTACTGCCACCTCTCCAGCTCTCCAGTCTGCTGCTG	7775
Qy	721	TGGCCCTTCTCTCTGACATCAATTGAGATTCAAGGGGATGCCAAATCTCTAGT	7716	TCTCCCTCTCTCATGCTACTGCCACCTCTCCAGCTCTCCAGTCTGCTGCTG	7775
Db	6696	TGGCCCTTCTCTCTGACATCAATTGAGATTCAAGGGGATGCCAAATCTCTAGT	780	TAGCCACATGCTACTCTCTGAGGAAACTATAATTGTPATCTCTGCTGCTG	7860
Qy	841	TTTATTACCAACAAAGAAATAGAGTGAALATCTGAAAGGGATGGCATGGGCAA	7776	TAGCCACATGCTACTCTCTGAGGAAACTATAATTGTPATCTCTGCTGCTG	7835
Db	6816	TTTATTACCAACAAAGAAATAGAGTGAALATCTGAAAGGGATGGCATGGGCAA	7896	AAAAAGAAACTCTGAAGAGCTGACATTCTGAGGTTGCTGAACTACATACCTAAC	7920
Qy	781	TCACTGATGTTCTGGTACGCCCTCATATACTCAAGTGGCTATGG	7896	CCAGTTTTGCTGCTGAGACTCATGAGACTCTCTGGCTGAGGCAAAGATTATAC	7985
Db	6756	TCACTGATGTTCTGGTACGCCCTCATATACTCAAGTGGCTATGG	7896	CCAGTTTTGCTGCTGAGACTCATGAGACTCTCTGGCTGAGGCAAAGATTATAC	7985
Qy	841	TTTATTACCAACAAAGAAATAGAGTGAALATCTGAAAGGGATGGCATGGGCAA	7955	1920	
Db	6816	TTTATTACCAACAAAGAAATAGAGTGAALATCTGAAAGGGATGGCATGGGCAA	7955	CCAGCTTCTGGCTGAGACTCATGAGACTCTCTGGCTGAGGCAAAGATTATAC	7955
Qy	901	GACAAGGGAGCTCCAATGAGATTCTCTGTTGCTGAGATGTCATGGAAA	8041	CAACTGCTTCTGAGGAACTTCTGAGGTTGCTGAGGAAAGGTGAG	2100
Db	6876	GACAAGGGAGCTCCAATGAGATTCTCTGTTGCTGAGATGTCATGGAAA	8041	CAACTGCTTCTGAGGAACTTCTGAGGTTGCTGAGGAAAGGTGAG	2160
Qy	961	GCAGTATCTCTCATAATGAGATTCTCTGTTGCTGAGATGTCATGGAAA	8076	CAAACCTGCTTCTGAGGAACTTCTGAGGTTGCTGAGGAAAGGTGAG	8135
Db	6936	GCAGTATCTCTCATAATGAGATTCTCTGTTGCTGAGATGTCATGGAAA	8076	CAAACCTGCTTCTGAGGAACTTCTGAGGTTGCTGAGGAAAGGTGAG	8075
Qy	1021	TCAACTGACCTGTTGAAATTGGAGCTGGTGGTGCACACCTCTATG	8135	TGATCTGACCCCTGTTGAGGATATTATCTTAAATTGGTGGTGAAGGAGACCTACTCTGGGAGAA	2220
Db	6996	TCAACTGACCTGTTGAGGATATTATCTTAAATTGGTGGTGAAGGAGACCTACTCTGGGAGAA	8136	TGATCTGACCCCTGTTGAGGATATTATCTTAAATTGGTGGTGAAGGAGACCTACTCTGGGAGAA	8195
Qy	1081	CTGAACTTGTACTTAGCCCTCAGAGCTTACAGCTGATAGGCTGAAACATT	8136	TGATCTGACCCCTGTTGAGGATATTATCTTAAATTGGTGGTGAAGGAGACCTACTCTGGGAGAA	8195

QY	2221	CATATTGTTATTATGTCCTGAAACAGTAAACAATCTGTGAAAATAGACGTTAACTTT	2280	QY	3301	CCTGGTGTCCGATAAGATCCTAGAACCGAAACAGGACTAAAGGTGCTAGAGAA	3360						
Db	8196	CATATTGTTATTATGTCCTGAAACAGTAAACAATCTGTGAAAATAGACGTTAACTTT	8255	Db	9276	CCTGGTGTCCATAAGATCCTAGAACCGAAACAGGACTAAAGGTGCTAGAGAA	9335						
QY	2281	ATTATCTAACGAGTAAGGAAACCTAGATCTGAGGCATACCATCTGCAAGGCTPATCT	2340	QY	3361	TGGCCATATGTCGTCGCCATGAAATCTCAAGGACTTCCTGGTGGAGGGCACAGGAGCT	3420						
Db	8256	ATTATCTAACGAGTAAGGAAACCTAGATCTGAGGCATACCATCTGCAAGGCTPATCT	8315	Db	9336	TGGCCATATGTCGTCGCCATGAAATCTCAAGGAGCTTCCTGGTGGAGGGCACAGGAGCT	9395						
QY	2341	GCTGTACAAATAATGTTGAAAGATGGTCCAGAAAACCGTATTATGCTTGTCT	2400	QY	3421	GAACATACGGGTTGCCCACTGCTCCACTGTCAGTCAGTCAGTCAGTCAGTCAGGCA	3480						
Db	8316	GCTGTACAAATAATGTTGAAAGATGGTCCAGAAAACCGTATTATGCTTGTCT	8375	Db	9396	GAACATACGGGTTGCCCACTGCTCCACTGTCAGTCAGTCAGTCAGTCAGGCA	9455						
QY	2401	CAGARGACACAGACAAATAAGGAAACATAAGGAACTGGAAAATGTGTCCTCCACACTGTCACC	2460	QY	3481	CTGTGCGAGCATGTCGTTCACTGTCACCACTCTGTAACAGGGCTAACGGGCTACCCCTG	3540						
Db	8376	CAGARGACACAGACAAATAAGGAAACATAAGGAACTGGAAAATGTGTCCTCCACACTGTCACC	8435	Db	9456	CTGTGCGAGCATGTCGTTCACTGTCACCACTCTGTAACAGGGCTAACGGGCTACCCCTG	9515						
QY	2461	AGAGGCTTCCACTCTTGCTGAGGACAGCTTAACTCCATCATTAAGTGTGTCACCA	2520	QY	3541	ATGAACACCATGGTGTGAGGAAACAGGGGTGAGGCAATGGTAACTCTGTGTGTCAGA	3600						
Db	8436	AGAGGCTTCCACTCTTGCTGAGGACAGCTTAACTCCATCATTAAGTGTGTCACCA	8495	Db	9516	ATGAACACCATGGTGTGAGGAAACAGGGGTGAGGCAATGGGCTTCCGTGTGTCAGA	9575						
QY	2521	CATCGGCTTACCGTCCCTAACAGATTCTAGGTCAAGTCCACCACTTTCGCA	2580	QY	3601	GCCCCAGGGGCCATGACGGTCTGGGGGAGGGCTGGACTGGCTGGC	3645						
Db	8496	CATCGGCTTACCGTCCCTAACAGATTCTAGGTCAAGTCCACCACTTTCGCA	8555	Db	9576	GCCCCAGGGGCCATGACGGTCTGGGGAGGGCTGGACTGGCTGGC	9620						
QY	2581	GTGCCCTACCTGCCAACCCCGAAATAAGGAGTGTCAAATTGGGGCATGGTGG	2640	RESULT 2									
Db	8556	GTGCCCTACCTGCCAACCCCGAAATAAGGAGTGTCAAATTGGGGCATGGTGG	8615	ID	AAZ06489	standard; DNA: 12047 BP.							
QY	2641	GGATGAAACTTCTGGCTTGAGTGCAGGGGCCCATACTCTTGGTCCAAAGGG	2700	XX	AAZ06489;								
Db	8616	GGATGAAACTTCTGGCTTGAGTGCAGGGGCCCATACTCTTGGTCCAAAGGG	8675	XX	DT	23-NOV-1999 (first entry)							
QY	2701	AAGAGGCTGGAGGTGAATGNCCTTGAGGGGAAATGGGGTCTGAACCTTAAATCC	2760	XX	DE	Human glandular kallikrein-1 (hK1/hKLK2) promoter/enhancer region.							
Db	8676	AAGAGGCTGGAGGTGAATGNCCTTGAGGGGAAATGGGGTCTGAACCTTAAATCC	8735	XX	XX	prostate; cancer; drug assay; drug development; enhancer; promoter; prostate; tumour; kallikrein; androgen regulation; prostate specific antigen; ss.							
QY	2761	CCAAAGGGAGGAGCTGGTAAGGTCCAGCTTCCGAGGCTGAATGCGCTGAG	2820	XX	XX	Homo sapiens.							
Db	8736	CCAAAGGGAGGAGCTGGTAAGGTCCAGCTTCCGAGGCTGAATGCGCTGAG	8795	XX	XX	Location/Qualifiers							
QY	2821	AGGGCTTAAGAATCCGTAATCCTCGGGAAAGGGGCTGAATGTGAGGGGTGAGTGC	2880	XX	PH	AAZ0113-A2.							
Db	8796	AGGGCTTAAGAATCCGTAATCCTCGGGAAAGGGGCTGAATGTGAGGGGTGAGTGC	8855	XX	FT	Key enhancer	80371						
QY	2881	AGGGCTTGTAGTGTGAACTCTGGTGTGCTCCTGGAAAGCAAGAACCTT	2940	XX	FT	/tag= a							
Db	8856	AGGGCTTGTAGTGTGAACTCTGGTGTGCTCCTGGAAAGCAAGAACCTT	8915	XX	PR	/note= 'Enhancer activity'							
QY	2941	GGCTCCAGGTTTGTGTGAGGTTATGGGATTCCTGATTCTAAAGGTGAGGACT	3000	XX	XX	W0941413-A2.							
Db	8916	GGCTCCAGGTTTGTGTGAGGTTATGGGATTCCTGATTCTAAAGGTGAGGACT	8975	XX	XX	W0941413-A2.							
QY	3001	GAGAGTGGCCATGCAAGAGTGGCTGAACTCCATGAACTTGGGCTAATGCCATG	3120	XX	XX	XX							
Db	8976	GAGAGTGGCCATGCAAGAGTGGCTGAACTCCATGAACTTGGGCTAATGCCATG	9095	XX	PD	19-AUG-1999.							
QY	3061	TACTCTTCTGTTGAACTCAAGAGTGGCTGAACTCCATGAACTTGGGCTAATGCCATG	3180	XX	XX	XX							
Db	9036	TACTCTTCTGTTGAACTCAAGAGTGGCTGAACTCCATGAACTTGGGCTAATGCCATG	9155	XX	PP	11-FEB-1999;							
QY	3121	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	3180	XX	PI	12-FEB-1998;							
Db	9096	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	9275	XX	XX	PR	98US-00022732.						
QY	3181	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	3240	XX	XX	XX	(CALY-) CALYDON INC.						
Db	9156	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	9215	XX	PA	WPI ; 1999-527378/44.							
QY	3241	CCATGCGCTGGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTG	3300	XX	PT	Screening for compounds which inhibit prostate cancer using a cell line							
Db	9216	CCATGCGCTGGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTG	9275	XX	PT	containing a marker whose expression is responsive to therapeutically active compounds.							
QY	3181	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	3240	XX	PS	Example 6; Page 44-48; 50pp; English.							
Db	9156	CCGAGGCCTGGGCTGCACTCATTCATTCACTGCACTGCACTGCACTGCACTG	9215	XX	XX	This is the nucleotide sequence of the promoter/enhancer region of the human glandular kallikrein gene (hK1 or hKLK2, encoding the hK2 protein). hKLK2 is a member of the kallikrein family, as is the prostate-specific antigen (PSA), a chymotrypsin like protein that is synthesized exclusively by normal, hyperplastic, and malignant prostatic epithelia. This tissue specific nature of PSA makes it an excellent biomarker for identifying benign prostatic hyperplasia (BPH) and prostatic carcinoma (Cap). Elevated levels of PSA are indicative of BPH or Cap. Like PSA,							

hNLK2 is expressed exclusively in the prostate and is up regulated by androgens, primarily by transcription activation. The proteins also exhibit a high degree of amino acid sequence identity and contain similar regulatory elements. The characterisation of genes whose expression is limited to the prostate allows the development of screening methods which can identify substances capable of specifically altering the expression

Qy	901	GACAGGGAGGAGTCGAAGTGCAGAATTCTGGTTTCGCCAGTGGTGTCACTGAAA
Db	6876	GACAGGGAGGAGTCGAAGTGCAGAATTCTGGTTTCGCCAGTGGTGTCACTGAAA
Qy	961	GCAGTATCTTCATACAAATGATGTGTGATAATACTCAGTGTATTGCCAACTCGGGAAC
Db	6936	GCAGTATCTTCATACAAATGATGTGTGATAATACTCAGTGTATTGCCAACTCGGGAAC
Qy	1021	TCAAACGTAGGCCCTGATTAATATGGGCTTGTTGCACAGAATGTGACCCCTCATGG
Db	6996	TCAAACGTAGGCCCTGATTAATATGGGCTTGTTGCACAGAATGTGACCCCTCATGG
Qy	1081	CTOAACCTTAGACTTACGCCCTCCAGACGTTACAGCTGATAGGTGTAAACCACATT
Db	7056	CTAACCTTAGACTTACGCCCTCCAGACGTTACAGCTGATAGGTGTAAACCACATT
Qy	1141	GTACACATAAATCACATTGTTAGACATTCAGTGTGCCCAAGGTCCAGTGTAAACAG
Db	7116	GTACACATAAATCACATTGTTAGACATTCAGTGTGCCCAAGGTCCAGTGTAAACAG
Qy	1201	GCACCTPAAACAGGCAAGGATATTCAAAGCTTAAAGCTTAAAGCTTAAAGCTTAAAG
Db	7176	GCACCTPAAACAGGCAAGGATATTCAAAGCTTAAAGCTTAAAGCTTAAAGCTTAAAG
Qy	1261	AAGAACCTGGGCTCTTGGCAAGGAGAAATCCTTCACAGGGTT
Db	7236	AAGAACCTGGGCTCTTGGCAAGGAGAAATCCTTCACAGGGTT
Qy	1321	ATGGTACGAGGATAAATGGTCAATGTTGGTCAATGTTGAGACCCAGAACATCTGCTGTGAGGAGA
Db	7296	ATGGTACGAGGATAAATGGTCAATGTTGGTCAATGTTGAGACCCAGAACATCTGCTGTGAGGAGA
Qy	1381	GTGACTCTTATGTTGCTGCTAACATTGCTGAGTCTCTAGAAAGTATTAGGCTGTTTCAG
Db	7356	GTGACTCTTATGTTGCTGCTAACATTGCTGAGTCTCTAGAAAGTATTAGGCTGTTTCAG
Qy	1441	CACTACAGATGCTCATCTAACATCCTAACAACTGGGTACAGGGTGGCACTTAACGCCCTC
Db	7416	CACTACAGATGCTCATCTAACATCCTAACAACTGGGTACAGGGTGGCACTTAACGCCCTC
Qy	1501	ATTGACAGGAAAGAACACTGGGATAAGAGGGGGTGAACATTGTCAGAGTCATTCT
Db	7476	ATTGACAGGAAAGAACACTGGGATAAGAGGGGGTGAACATTGTCAGAGTCATTCT
Qy	1561	GGATGCAAGGGGCTCAGGACCATGATTAGACATTTGTCAGAGTCATTCT
Db	7536	GGATGCAAGGGGCTCAGGACCATGATTAGACATTTGTCAGAGTCATTCT
Qy	1621	ATGTCCTGCCCCGAAAGGGGGTGAACATTGTCAGATCTGACTTCCT
Db	7595	ATGTCCTGCCCCGAAAGGGGGTGAACATTGTCAGATCTGACTTCCT
Qy	1681	TTGAGGTTTATCTCAGATTCCCTCTATGATACAGGAGCCATCATATCTCTGCTCC
Db	7656	TTGAGGTTTATCTCAGATTCCCTCTATGATACAGGAGCCATCATATCTCTGCTCC
Qy	1741	TCTCCCTTCTCCTOAGCTTACTGCCAACCTTCCAGCTCCATCTCAGCTGGGGT
Db	7716	TCTCCCTTCTCCTOAGCTTACTGCCAACCTTCCAGCTCCATCTCAGCTGGGGT
Qy	1801	TAGCCACAGTACCTAACTCTTGAGAGAACTATAATGTTATCTACAGGGGAAAA
Db	7776	TAGCCACAGTACCTAACTCTTGAGAGAACTATAATGTTATCTACAGGGGAAAA
Qy	1861	AAAAAAAGAACCTCTGAAAGAGCTGACATTTCACGACTTACATGCTAACCTG
Db	7836	AAAAAAAGAACCTCTGAAAGAGCTGACATTTCACGACTTACATGCTAACCTG
Qy	1921	CCAGTATTGCTGCTGGTACAAGGAACTCTAGAGACTCTGGTCAAGGGAAAAGTTTATTAC
Db	7895	CCAGTATTGCTGCTGGTACAAGGAACTCTAGAGACTCTGGTCAAGGGAAAAGTTTATTAC

Qy	1981	CCACAGTAAAGGGCGCATGAACTTTGTGTCAATTGTGTCACTTTGCCCAATT	2045
Db	7956	CCACAGCTAACGGGCGCATGAACTTTGTGTCAATTGTGTCACTTTGCCCAATT	8015
Qy	2041	CATATGGATGATGAGCGAAGTCAGGTGATGAAACAGGGTTTGGAAGGTGAG	8075
Db	8016	CATATGGATGATGAGCGAAGTCAGGTGATGAAACAGGGTTTGGAAGGTGAG	2100
Qy	2101	CAACCTAGGCTTAGAAATCCTCAATCTTATAGAAAGTACTAGAAACTTGTCGAGCTT	2160
Db	8076	CAACCTAGGCTTAGAAATCCTCAATCTTATAGAAAGTACTAGAAACTTGTCGAGCTT	8135
Qy	2161	TCTATCTGAGGATAATTCTTATAATTGGTTAAAGGACCTACTTGCGGGAA	2220
Db	8136	TCTATCTGAGGATAATTCTTATAATTGGTTAAAGGACCTACTTGCGGGAA	8195
Qy	2221	CATATGTATTATTGTCCTGAAACAGTAAACAAATCTGTPAAAATAGACGTTAACTT	2280
Db	8196	CATATGTATTATTGTCCTGAAACAGTAAACAAATCTGTPAAAATAGACGTTAACTT	8255
Qy	2281	ATTATTAAGGAGTAAGCAAACCTAATCTTAAGGGGATAACATTTGCAAGGCTATCT	2340
Db	8256	ATTATTAAGGAGTAAGCAAACCTAATCTTAAGGGGATAACATTTGCAAGGCTATCT	8315
Qy	2341	GCTGTACAATAATGCTTAAAGATGTCGCCAGAAAGAAAACTGGTATTATGCCCTTGCT	2400
Db	8316	GCTGTACAATAATGCTTAAAGATGTCGCCAGAAAGAAAACTGGTATTATGCCCTTGCT	8375
Qy	2401	CAGAAAGCACACAGAAACATAAGAACCATGGAAAATTGGTCCTCAACACTGTTACCC	2460
Db	8376	CAGAAAGCACACAGAAACATAAGAACCATGGAAAATTGGTCCTCAACACTGTTACCC	8435
Qy	2461	AAGACCTTCACACTCTGTCGAGGAGACTCTAAACATCCATCATTAAGTGTCTACCA	2520
Db	8436	AAGACCTTCACACTCTGTCGAGGAGACTCTAAACATCCATCATTAAGTGTCTACCA	8495
Qy	2521	CATCTGGTTACCGTGTCTAACAAATTCTAGTCAGTCCACCATGTTGGCA	2580
Db	8496	CATCTGGTTACCGTGTCTAACAAATTCTAGTCAGTCCACCATGTTGGCA	8555
Qy	2581	GTCGCCACTGCACACCAGATAAGGGAGTGTCTAGAAATTCCGAGGGGACATGGTGG	2640
Db	8556	GTCGCCACTGCACACCAGATAAGGGAGTGTCTAGAAATTCCGAGGGGACATGGTGG	8615
Qy	2641	GCATCAGAACCTCTGGCTTGAATGTCACAGGGCGCCATACTCCTTGTCGAAAGGAGG	2700
Db	8616	GCATCAGAACCTCTGGCTTGAATGTCACAGGGCGCCATACTCCTTGTCGAAAGGAGG	8675
Qy	2701	AAAGAGGTGCGACGTGAATGTCCTTGAAGGGGGCCATACGCTTGTCGAAAGGAGG	2760
Db	8676	AAAGAGGTGCGACGTGAATGTCCTTGAAGGGGGCCATACGCTTGTCGAAAGGAGG	8735
Qy	2761	CCAAAGGAGGAACTGTAAAGTTCACCTTCGAGGTACTACGTTGGAAATGGCTGAG	2820
Db	8736	CCAAAGGAGGAACTGTAAAGTTCACCTTCGAGGTACTACGTTGGAAATGGCTGAG	8795
Qy	2821	AGGTCTTAAATCCGATCCTGGGAGGAACTGGCTGAAATTGTGGGGTTGATGGTGC	2880
Db	8796	AGGTCTTAAATCCGATCCTGGGAGGAACTGGCTGAAATTGTGGGGTTGATGGTGC	8855
Qy	2881	AGGGTTGTGAGCTGAGACTCTCTGTGGGCCCCCTGGAAAGCAAGGACTTGAAACATT	2940
Db	8856	AGGGTTGTGAGCTGAGACTCTCTGTGGGCCCCCTGGAAAGCAAGGACTTGAAACATT	8915
Qy	2941	GGCTCAAGGTGTTGGTGTGAAAGGTAATGGGATCTCCTGATTCAGGCTAAAGGAACT	3000
Db	8916	GGCTCAAGGTGTTGGTGTGAAAGGTAATGGGATCTCCTGATTCAGGCTAAAGGAACT	8975
Qy	3001	GAGAGTGGCCATGCTTGTGACTCTTCACTTCACTTGAGGTTAATGAACTT	3060
Db	8976	GAGAGTGGCCATGCTTGTGACTCTTCACTTCACTTGAGGTTAATGAACTT	9035
Qy	3061	TACTCTCTAGTTCAGTCAACAGATGCGCTGCGGAGATAATCTGACATGTCAGTC	3120

Disclosure; Fig 6A-H; 79pp; English.  
The present sequence comprises a transcriptional regulatory element (TRE) from a human Glandular Kallikrein gene. The TRE is used to produce an adenoviral vector of the invention. The specification describes an adenovirus vector which comprises an adenovirus gene under transcriptional control of a cell status specific TRE. The TRE is preferably one that is essential for adenoviral propagation. The adenovirus vectors may be used for the treatment of a range of tumours such as lung, stomach, breast, colon and rectum, and uterine and cervix cancers.

6756	TCAGGATTGTGGCCCTCATATAACTCAATGAAAGCTGTATGCTCATGGTATGG	6818
841	TTTATACAGGAAAGAATAGAGATGAALATCTAGCAAGGAAGGTGTCATGGCAA	900
6816	TTTATACAGGAAAGAATAGAGATGAALATCTAGCAAGGAAGGTGTCATGGCAA	6875
901	GACAAGGAGACCTCAGTCAGAACATTCTGTTCCAGACATGTTGATAAATTCTG	
6876	GACAAGGAGCTCAGTCAGAACATTCTGTTCCAGACATGTTGATAAATTCTG	
961	GCAGATCTCTCCATACATGAGCTGATAAATTCTGTTGATTCAGCTGAACTGGAC	1020
6936	GCAGATCTCTCCATACATGAGCTGTTCCAGACATGTTGATAAATTCTGTTG	
1021	TCAACTGAGCCTGTTATTATTGGGCTTGTTGACAGACATGTTGACCTCTG	1080
6996	TCAACTGAGCCTGTTATTATTGGGCTTGTTGACAGACATGTTGACCTCTG	
1081	CTGAAATTAGTACTAGGCCCTCGAGGTCAGCTGTAACGCTGTAACGCCACATT	1140
7056	CTGAAATTAGTACTAGGCCCTCGAGGTCAGCTGTAACGCTGTAACGCCACATT	
1141	GTCACATAAAATCACATTGTTGAGCTATCCAGTGTGGCCAAAGTCCGCTG	1200
7116	GTCACATAAAATCACATTGTTGAGCTATCCAGTGTGGCCAAAGTCCGCTG	
1201	GCACTTAAACAGGGAGGATTTCAAAAGCTTAGAGTACCTGTTGAGCTGAA	1260
7176	GCACTTAAACAGGGAGGATTTCAAAAGCTTAGAGTACCTGTTGAGCTGAA	
1261	AAAGACCTGGCCCTTTGGCAAGGAGATCCCTTACCGCACACTCTCTTACAGGGTT	1320
7236	AAAGACCTGGCCCTTTGGCAAGGAGATCCCTTACCGCACACTCTCTTACAGGGTT	
1321	ATTGGAGGATCAAAATGTGTCACTGGCTGAGACACCAGCACATGTC	1380
7296	ATTGGAGGATCAAAATGTGTCACTGGCTGAGACACCAGCACATGTC	
1381	GTGACTCTCTATGTGGCTAACATTCGTTGACTGTTGAAAGATTAGGCTG	1440
7356	GTGACTCTCTATGTGGCTAACATTCGTTGACTGTTGAAAGATTAGGCTG	
1441	CACTACAGATGCTCATCTCATCACACATGGCTAACAGGGACTACTAGCCTC	1500
7416	CACTACAGATGCTCATCTCATCACACATGGCTAACAGGGACTACTAGCCTC	
1501	ATTGACAGGAAAGGACTTGTGAAATAAGAAGGGGTGACCAATAAGGCTG	1560
7476	ATTGACAGGAAAGGACTTGTGAAATAAGAAGGGGTGACCAATAAGGCTG	
1561	GGATGCAAGGGGCTCAGAGGACCAAGGGGATGCACTTCTGACCCCTATCT	1620
7536	GGATGCAAGGGGCTCAGAGGACCAAGGGGATGCACTTCTGACCCCTATCT	
1621	ATGTCCTCTGCCCCGAAAGGGGATGCACTTCTGACCCCTATCTGAGAAAT	1680
7596	ATGTCCTCTGCCCCGAAAGGGGATGCACTTCTGACCCCTATCTGAGAAAT	
1681	TTGAGGTTATCTCAGACACTCTCATGATAACCGAGGCCATATAATCTGTGTC	1740
7656	TTGAGGTTATCTCAGACACTCTCATGATAACCGAGGCCATATAATCTGTGTC	
1741	TCTCCCTTCTCATCTACTGCGCACTCTCCAGCTCCATCTGCTGCAAGCTG	1800
7716	TCTCCCTTCTCATCTACTGCGCACTCTCCAGCTCCATCTGCTGCAAGCTG	
1801	TAGCCACAGTACCTTAACACTCTTGGAGAGACTATAATGTTATCTGTGTC	1860
7776	TAGCCACAGTACCTTAACACTCTTGGAGAGACTATAATGTTATCTGTGTC	
1861	AAAAAAAATCTGAAAGGCTGAACTCTCATCTGCAACACATAAGTAACTCTG	1920
7836	AAAAAAAATCTGAAAGGCTGAACTCTCATCTGCAACACATAAGTAACTCTG	

Cy	1921	CCAGTTTGTGCTGGTAGAACTCATGAGAAGTCCTGGGGTAGAGGCCAAAGATTTTAC	1980	QY	3001	GAGAGTTGCCATGCCATTGATCTTCCATCTACTCCTTACTCCATTGAGGGTAATCACC	3 060
Db	7896	CCAGTTTGTGCTGGTAGAACTCATGAGAAGTCCTGGGGTAGAGGCCAAAGATTTTAC	7955	Db	8976	GAGAGTTGCCATGCCATTGATCTTCCATCTACTCCTTACTCCATTGAGGGTAATCACC	9035
QY	1981	CCACAGCTTAAGGAGGCGATGAACTTGTGTCACATTTGTCACCTGCCCCCAATT	2040	QY	3061	TACTCTTCTAGTCACAAGAGTGGGCTCGGGAGATAATCTGCACATGTGCATGTC	3 120
Db	7956	CCACAGCTTAAGGAGGCGATGAACTTGTGTCACATTTGTCACCTGCCCCCAATT	8015	Db	9036	TACTCTTCTAGTCACAAGAGTGGGCTCGGGAGATAATCTGCACATGTGCATGTC	9095
QY	2041	CATATGGCATGNTCAGGCACTTACGGTGATGTCAGTGGCAAGGTAG	2100	QY	3121	CCGAGGCTCTGGGCACTCATCACTCATCACTCATCACTCATCACTCATCACTCAT	3 180
Db	8016	CATATGGCATGTCAGGCACTTACGGTGATGTCAGTGGCAAGGTAG	8075	Db	9096	CCGAGGCTCTGGGCACTCATCACTCATCACTCATCACTCATCACTCATCACTCAT	9155
QY	2101	CAACCTAGGTTAGAAATCTCAATCTATAAGAGGACTAGAAACCTGTCAGTT	2160	QY	3181	CCGATGACGTCATGAGCTGGACTATCCCTGCGGCTCTCCCGTACGTCCCAA	3 240
Db	8076	CAACCTAGGTTAGAAATCTCAATCTATAAGAGGACTAGAAACCTGTCAGTT	8135	Db	9156	CCGATGACGTCATGAGCTGGACTATCCCTGCGGCTCTCCCGTACGTCCCAA	9215
QY	2161	TGTATCTGACCGAGATAATCTTATAATTGGGTGAAAGCAGCTACTTGGAGAA	2220	QY	3241	CCATGGAGCTGTGAGCTGGCTCCCTGGTGAATGGCTGCTGGTGGATGGCTG	3 300
Db	8136	TGTATCTGACCGAGATAATCTTATAATTGGGTGAAAGCAGCTACTTGGAGAA	8195	Db	9216	CCATGGAGCTGTGAGCTGGCTCCCTGGTGAATGGCTGCTGGTGGATGGCTG	9275
QY	2221	CATATTGTTATAATGTCCTGAAACGTAACAACTCTGCTGAAATAGACGTTAAC	2280	QY	3301	CCTGGTSTCCGATTAAGATCTGAAACCACAGGAACCCAGACTAAAGTGTAGAGAA	3 360
Db	8196	CATATTGTTATAATGTCCTGAAACGTAACAACTCTGCTGAAATAGACGTTAAC	8255	Db	9276	CCTGGTCCGATTAAGATCTGAAACCACAGGAACCCAGACTAAAGTGTAGAGAA	9335
QY	2281	ATTATCTAAGGCATAAAGCAGAACCTGAGCTGAGGGATAACATCTGCAAGGCTATCT	2340	QY	3361	TGGCATATGTGCTGTCATGTCATGAACTTCAGGACTTCAGGCTACAGGAGCT	3 420
Db	8256	ATTATCTAAGGCATAAAGCAGAACCTGAGCTGAGGGATAACATCTGCAAGGCTATCT	8315	Db	9336	TCGACATATGTGCTGTCATGTCATGAACTTCAGGACTTCAGGCTACAGGAGCT	9395
QY	2341	GCTGTACAAATATGTTGAAAGATGGTCAGAAAAGAAACCGTATTATTGCTTGTCT	2400	QY	3421	GAACHTACGGGTTGCCCACTGCTCCACAGTCAGTCTCCAGATACAGGGCA	3 480
Db	8316	GCTGTACAAATATGTTGAAAGATGGTCAGAAAAGAAACCGTATTATTGCTTGTCT	8375	Db	9396	GAACHTACGGGTTGCCCACTGCTCCACAGTCAGTCTCCAGATACAGGGCA	9455
QY	2401	CAGANGACACAGAAACATAAGAGAACCCATGGAAAATGTGTCACACATGTTACCC	2460	QY	3481	CTGTGCGAGCATCACTGTCACCCATCTGACCCATCTGACCCATCTGACCC	3 540
Db	8376	CAGAGACACAGAAACATAAGAGAACCCATGGAAAATGTGTCACCCACGTTACCC	8435	Db	9456	CTGTGCGAGCATCACTGTCACCCATCTGACCCATCTGACCCATCTGACCC	9515
QY	2461	AGAGCCCTCCACCTCTGCTGAGGACAGCTCTAACATCCCATTAATGTTCTACCA	2520	QY	3541	ATGAACRCCATGTTGTCAGGAAACAGGGGTGAAGGCAATGGCTCTGTGTCAGA	3 600
Db	8436	AGAGCCCTCCACCTCTGCTGAGGACAGCTCTAACATCCCATTAATGTTCTACCA	8495	Db	9516	ATGAACRCCATGTTGTCAGGAAACAGGGGTGAAGGCAATGGCTCTGTGTCAGA	9575
QY	2521	CATCTGGCTCACCGCTAACAAAGATTCTAGGTCAGGACAGCTAACATTTGCA	2580	QY	3601	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGCTGACTGCC	3 645
Db	8496	CATCTGGCTCACCGCTAACAAAGATTCTAGGTCAGGACAGCTAACATTTGCA	8555	Db	9576	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGCTGACTGCC	9620
QY	2581	GTGCCCTCACGCCAACCCGAAAGTAAGGGAGCTCAGAAATCGAGGCCATGGTGG	2640	RESULT 4			
Db	8556	GTGCCCTCACGCCAACCCGAAAGTAAGGGAGCTCAGAAATCGAGGCCATGGTGG	8615	ID	AAA46552	standard; DNA; 12047 BP.	
QY	2641	GGATGAGACTCTCAGGGCTGAGTCAGGAGGGGCCCATACTCTTGGTTCCGAGAGG	2700	XX	AAA46552;		
Db	8616	GGATGAGAACTCTCAGGGCTGAGTCAGGAGGGGCCCATACTCTTGGTTCCGAGAGG	8675	AC			
QY	2701	AAGGGCTGGAGGTGAATGTCCTGGCTGAGTCAGGAGGGGCCCATACTCTTGGTTCCGAGAGG	2760	DT	03-OCT-2000	(first entry)	
Db	8676	AAGGGCTGGAGGTGAATGTCCTGGCTGAGTCAGGAGGGGCCCATACTCTTGGTTCCGAGAGG	8735	XX			
QY	2761	CCAAGGGAGAGCTGTAAGGTCCAGTGGGACTACTGACGTCGGAAATGGCTGAG	2820	XX			
Db	8736	CCAAGGGAGAGCTGTAAGGTCCAGTGGGACTACTGACGTCGGAAATGGCTGAG	8795	XX			
QY	2821	AGGTCTAAGATCCGTATCTCTGGAAAGGGGGCTGAATTTGTCAGGGTGAATGGCTGAG	2880	XX			
Db	8796	AGGTCTAAGATCCGTATCTCTGGAAAGGGGGCTGAATTTGTCAGGGTGAATGGCTGAG	8855	PD	06-JUL-2000.		
QY	2881	AGGGCTGGAGCTCTGGCTGAGACTCTTGGCTGGCTGGAGAAAGGACTGAACTT	2940	XX	30-DEC-1999;	99WO-US01249.	
Db	8856	AGGGCTGGAGCTCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG	8915	XX	30-DEC-1998;	98US-0114262P.	
QY	2941	GGCTCCAGGCTGGTTGGTGAAGGTATGGATCTCTCAAGGGTCAAGGCTAGAGGACT	3000	PR	29-DEC-1999;	99US-00474699.	
Db	8916	GGCTCCAGGCTGGTTGGTGAAGGTATGGATCTCTCAAGGGTCAAGGCTAGAGGACT	8975	PA	(CALY-) CALYDON INC.		
			PI	Henderson DR, Yu D,			





KW	platelet derived growth factor; ss.
XX	Homo sapiens.
CS	
XX	W0200173093-A2.
PN	04-OCT-2001.
XX	21-MAR-2001; 2001WO-US009036.
PF	
XX	24-MAR-2000; 2000US-0192156P.
PR	
XX	(CALLY-) CALYDON INC.
PA	
XX	Yu D., Li Y., Henderson DR;
PT	
PT	Replication-competent adenoviral vector, useful e.g. for killing cancer cells, contains two genes linked by internal ribosome entry site and controlled by target-specific regulator.
XX	
PS	Example; Page 106-112; 148pp. English.
XX	The sequences given in AAH41607-22 represent sequences which may be used in the replication-competent adenoviral vector (A) of the invention. The vector contains two genes (G1, G2) that are co-transcribed as a single mRNA and under control of a heterologous, target cell-specific transcriptional regulatory element (TRE). G2 has a mutation in, or deletion of, its endogenous promoter and is controlled from an internal ribosome entry site (IRES). (A) has greater specificity for a target cell than a similar vector in which TRE is operably linked to a gene and which lacks an IRES. (A) are used to modify the genotype of target cells, optionally in vitro with subsequent return of altered cells to the host and where G2 is a cytotoxic gene, to confer selective cytotoxicity to target cells, especially for killing cancer cells. Also (A) are used for diagnosis and monitoring, e.g. detection of bladder cancer cells. The target cell-specific TRE ensures that (A) has better targeting specificity, with minimal replication in non-target cells, so a runaway infection is prevented but production of adenoviral proteins in target cells activates and/or stimulates the immune response against target cells producing such proteins. The use of an IRES (rather than two identical control elements) eliminates the risk of homologous recombination and may provide enough extra space for an additional (therapeutic) gene
SQ	Sequence 12047 BP; 3051 A; 2484 C; 2869 G; 3643 T; 0 U; 0 Other;
	Query Match Score 3645; DB 5; Length 12047;
	Best Local Similarity 100.0%; Pred. No. 0;
	Mismatches 0; Conservative 0; Gaps 0;
Db	GGCCCTCAATAATTGTTAAGAGTAAATGTGTCAAAGATGGAAAATGTTGAAACTA 60
Db	5976 GGCCCTCAATAATTGTTAAGAGTAAATGTGTCAAAGATGGAAAATGTTGAAACTA 6035
Qy	1 CTGCCCCAGAGATTTTCCTGAGTTCTAGAGTGTGGAAATAAGAACCTGGAGCTGGCTT 120
Db	6036 CTGCCCCAGAGATTTCTGAGTTCTAGAGTGTGGAAATAAGAACCTGGAGCTGGCTT 6095
Qy	121 CTTAGCCCTAGAACTGGGCTAGGCTGAGCTGAGACCTGGCTTGG 180
Db	6096 CTTAGCCCTAGAACTGGGCTAGGCTGAGCTGAGACCTGGCTTGG 6155
Qy	181 GTGGCTTCTGGAGCACATTGACATTGACAGTGTGACACTGTGATTGGGTATTGTC 240
Db	6156 GTGGCTTCTGGAGCACATTGACATTGACAGTGTGACACTGTGATTGGGTATTGTC 6215
Qy	241 TCTGAATCTTAATGTCGTTCTGGGCTTCTGGGCTGAGCTGAAATCTGTGTCGAATTCT 300
Db	6216 TCTGAATCTTAATGTCGTTCTGGGCTGAGCTGAAATCTGTGTCGAATTCT 6275
Qy	301 ATTATCTTGAGTGGAGACATCTCCAGTCTGGGCTTCTGGGCTGAGCTGTCGTAGT 360



Qy	3601	GCCCCAGGGGGCATGACCGTGGGGAGGGCTGGACTGGC 3615	Db	6096	CTTACGCCCTPAGAATGGGACTATGGGCTGAAGCTGGCTTCAGCAGTTGGG 6155
Db	9576	GCCCCAGGGGGCATGACCGTGGGGAGGGCTGGACTGGC 9620	Qy	181	GTTCGCCTCCGGAGAACATTGGCAACTGGATTTGGGTGGPATTTGC 240
RESULT 6			Db	6156	GTTCGCCTCCGGAGAACATTGGCAACTGGATTTGGGTGGPATTTGC 6215
AAAF87248		Human glandular kallikrein-TRE standard; DNA; 12047 BP.	Qy	241	TCTGATATCCCTAATGCTGTCTTGAGGCATAGATACTGAAATCTGTGTCTGAGATTCT 300
ID			Db	6216	TCTGATATCCCTAATGCTGTCTTGAGGCATAGATACTGAAATCTGTGTCTGAGATTCT 6275
XX			Qy	301	ATTATCTGAGTAGGACATCTCCAGCTGGCTCGCTAGGGCTAGCTGAGTCAGTAGT 360
AC			Db	6276	ATTATCTGAGTAGGACATCTCCAGCTGGCTCGCTAGGGCTAGCTGAGTCAGTAGT 6335
XX		DT 26-MAR-2002 (first entry)	Qy	361	CACTGACCCGGTCTGCATTCAACTCTATACAGTGGGACTATCTTGGTCCATGTT 420
XX		Human glandular kallikrein-TRE coding sequence.	Db	6336	CAGTCACCCGGTCTGCATTCAACTCTATACAGTGGGACTATCTTGGTCCATGTT 6395
DE			Qy	421	CAACAAACACCGMATAACCATTAACCTTCCACTTCAGTGCCTATTTGGCTGAAATGTTAA 480
XX		Tumour growth suppression; adenovirus vector; antineoplastic agent; transscriptive element; TRE; radiotherapy; bladder cancer; prostate cancer; liver cancer; breast cancer; colon cancer; melanoma; ovarian cancer; pancreatic cancer; lung cancer; brain cancer; therapy; glandular kallikrein-TRE; ds	Db	6396	CAACAAACACCGMATAACCATTAACCTTCCACTTCAGTGCCTATTTGGCTGAAATGTTAA 6455
OS		Homo sapiens.	Qy	481	ACCTAGGATTCTGTTAAATAGGTICATAATGAAATTAGCCCTGATCAACTTACAT 540
XX		WO200172341-A2.	Db	6456	ACCTAGGATTCTGTTAAATAGGTICATAATGAAATTAGCCCTGATCAACTTACAT 6515
PD		04-OCT-2001.	Qy	541	TCCCTCTACCGTTATTCTACACCCACCTTAAATGCACTCCCATATACTCCCTGATT 600
XX		21-MAR-2001; 2001W0-US009042.	Db	6516	TCCCTCTACCGTTATTCTACACCCATATACTCCCTGATT 6575
PF			Qy	601	CTACCTATATGGTATCTGGCTTGCAGTTCTAGTCATTAACATACCTGATTTAAG 660
XX		PR 24-MAR-2000.; 2000US-0192015P.	Db	6576	CTACCTATATGGTATCTGGCTTGCAGTTCTAGTCATTAACATACCTGATTTAAG 6695
PA		(CALY-) CALYDON INC.	Qy	661	CATCTTTACTTAACTGGAAATAAGATCTCTGAGAGTTCTCAAGA 720
PA			Db	6721	TGGCCCTTAATTCCTGACATCAATGAGATTCCTCTGAGAGTTCTCAAGA 780
XX		Suppression of tumor growth; e.g. liver, bladder or breast cancer, comprises using a synergistic combination of adenovirus vector and antineoplastic agent or radiotherapy.	Db	6696	TGGCCCTTAATTCCTGACATCAATGAGATTCCTCTGAGAGTTCTCAAGA 6755
PA		DR 2001-648126/74.	Qy	781	TCAGTGTGTTGCTGCCCTCATATACTCAATGAAAGCTGTTATGCTCATGGCTATGG 840
XX		Yu D, Chen Y, Henderson DR;	Db	6756	TCAGTGTGTTGCTGCCCTCATATACTCAATGAAAGCTGTTATGCTCATGGCTATGG 6815
PI			Qy	841	TTTATTACGCAAAAGGATAGATGAAATCTGCAAGGGAAAGGTTGCTATGGCAA 900
XX		WPI; 2001-648126/74.	Db	6816	TTTATTACGCAAAAGGATAGATGAAATCTGCAAGGGAAAGGTTGCTATGGCAA 6875
PT			Qy	901	GACAGGAGAGCTTCAAGTCAGGAGGTTCTCTGAGAGTTCTCTGAGAGTTCTGAGAA 960
PT		Suppression of tumor growth for treatment of e.g. bladder cancer, prostate cancer, liver cancer, breast cancer, colon cancer, melanoma, ovarian cancer, pancreatic cancer, lung cancer or brain cancer. The combinations enhance the efficacy of treatment, allowing lower doses to be administered, reducing toxicity and suffering of the patient.	Db	6876	GACAGGAGAGCTTCAAGTCAGGAGTTCTCTGAGAGTTCTCTGAGAGTTCTGAGAA 6935
XX		Disclosure; Page 174-181; 248pp; English.	Qy	961	GCAGTATCPTCTCCATACATGATGTGTTGATAATACTGTTGCTATGGCAATCAGGAAAC 1020
PS			Db	6936	GCAGTATCPTCTCCATACATGATGTGTTGCTATGGCAATCAGGAAAC 6995
SQ		Sequence 12047 BP; 3051 A; 2484 C; 2869 G; 3643 T; 0 U; 0 Other;	Qy	1021	TCAACTGAGCCTGTTGATATACTGGAGCTGGTGCACAGACATGTCGACCACTTCATGG 1080
		Query Match 100.0%; Score 3645; DB 5; Length 12047;	Db	6996	TCAACTGAGCCTGTTGATATACTGGAGCTGGTGCACAGACATGTCGACCACTTCATGG 7055
		Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;	Qy	1081	CTGAACTTTAGTACTTACGCCCTCAGAGCTGCTGATAGGGCTGAACTCCAACTT 1140
		Matches 3645; Conservative 0;	Db	7056	CTGAACTTTAGTACTTACGCCCTCAGAGCTGCTGATAGGGCTGAACTCCAACTT 7115
			Qy	1141	GTCAACCATAAATCCTGATTTGCTGAACTTACGTTGCTGAACTTACGTTGCTGAACTTACG 1200
			Db	7116	GTCAACCATAAATCCTGATTTGCTGAACTTACGTTGCTGAACTTACGTTGCTGAACTTACG 7175
			Qy	1201	GCATCTCAAACAGCAGGATATTAGAGTAAAGCTTGAAGATGACCTTCAGGAGCTGATGC 1260
			Db	5976	CTTCAAGCTTAAACAGGAGGATATTAGAGTAAAGCTTGAAGATGACCTTCAGGAGCTGATGC 180
			Qy	61	CTGTCCTCAGGATTTCCCTGAGTTAGACTGTGGAAATAATAGACCTGGCTGAGCTGGCT 120
			Db	6036	CTGTCCTCAGGATTTCCCTGAGTTAGACTGTGGAAATAATAGACCTGGCTGAGCTGGCT 6095
			Qy	121	CTTCAAGCTTAAACAGGAGGATATTAGAGTAAAGCTTGAAGATGACCTTCAGGAGCTGATGC 1265

QY	2341	GCTGTTAACAAATATGTTGAAAGATGTCCAGAAGAAACGGTATTATTCCTGCTTGCT	2400
Db	8316	GCTGTTAACAAATATGTTGAAAGATGTCCAGAAGAAACGGTATTATTCCTGCTTGCT	8375
QY	2401	CAGAACACACAGAAACATAAGAACCCATGAAAATTGTCCTCCAAACACTGTTACCC	2460
Db	8376	CAGAACACACAGAAACATAAGAACCCATGAAAATTGTCCTCCAAACACTGTTACCC	7295
QY	2461	AGAGCTTCCACTCTGTCGAGGAACTCTTAACTATCCATTAAGTGTCTTACCA	2520
Db	8436	AGAGCTTCCACTCTGTCGAGGAACTCTTAACTATCCATTAAGTGTCTTACCA	8495
QY	2521	CATCTGGCTTACCCCTGCTTACCCGAACTTCTAGTTCCACCATGTTGGCA	2580
Db	8496	CATCTGGCTTACCCCTGCTTACCCGAACTTCTAGTTCCACCATGTTGGCA	8555
QY	2581	GTGCCCACTGCCAACCCCAGAAATTAGGGAGTGTGAGATTCCCGAGGAACTATGGTGG	2640
Db	8556	GTGCCCACTGCCAACCCCAGAAATTAGGGAGTGTGAGATTCCCGAGGAACTATGGTGG	8615
QY	2641	GGATCAGAACTTCTGGGCTTGAAGTGCAGGGGCCATACTCTTGTGAGGAGG	2700
Db	8616	GGATCAGAACTTCTGGGCTTGAAGTGCAGGGGCCATACTCTTGTGAGGAGG	8675
QY	2701	AAGAGCTCTGGAGGAGCTGTGAGATGTCCTGGGGGAGGAATGTGGGTTCTGA	2760
Db	8676	AAGAGCTCTGGAGGAGCTGTGAGATGTCCTGGGGGAGGAATGTGGGTTCTGA	8735
QY	2761	CCAAGGGAGGAGACTGTGAGCTTCCAGGTTCCAGGTTCTGGAGTGA	2820
Db	8736	CCAAGGGAGGAGACTGTGAGCTTCCAGGTTCTGGAGTGA	8795
QY	2821	AGGTCTTAAGATCCCTATCTCGGGAAAGGGGGCTGAAATTGTA	2880
Db	8796	AGGTCTTAAGATCCCTATCTCGGGAAAGGGGGCTGAAATTGTA	8855
QY	2881	AGGGGTTGGTAGCTGAGACTCTTGTGGCTTCCCTGGAAAGGACTGAA	2940
Db	8856	AGGGGTTGGTAGCTGAGACTCTTGTGGCTTCCCTGGAAAGGACTGAA	8915
QY	2941	GGCTCCAGGGTTGGTAGCTGAGGTTGAGGATTCCTGAAAGGGCTGAA	3000
Db	8916	GGCTCCAGGGTTGGTAGCTGAGGTTGAGGATTCCTGAAAGGGCTGAA	8975
QY	3001	GAGAGTGCCATGTTGATCTTCATTACTCCATTGAGGTATATCACC	3060
Db	8976	GAGAGTGCCATGTTGATCTTCATTACTCCATTGAGGTATATCACC	9035
QY	3061	TACTCTTCTAGTTCCAAAGTGCCTGGGAAGTATAATCTCCATGTCCTGTC	3120
Db	9036	TACTCTTCTAGTTCCAAAGTGCCTGGGAAGTATAATCTCCATGTCCTGTC	9095
QY	3121	CCGAGGCTGGGGCATCATCCACTCATTCAGGATCTGGCTTGGGGCGGG	3180
Db	9096	CCGAGGCTGGGGCATCATCCACTCATTCAGGATCTGGCTTGGGGCGGG	9155
QY	3181	CGCCATGACGTCATGTTGAGCTGCGACTATCTGCAGGCGCTCTCCG	3240
Db	9156	CGCCATGACGTCATGTTGAGCTGCGACTATCTGCAGGCGCTCTCCG	9215
QY	3241	CCATGGAGCTGGAGCTGGCTCCCTGGCTGTCAGGGACTCTCCG	3300
Db	9216	CCATGGAGCTGGAGCTGGCTCCCTGGCTGTCAGGGACTCTCCG	9275
QY	3301	CCTGGTGGCCGATAAAGATCCGAAACCAAGGACTGAAGTGTAGAGAA	3360
Db	9276	CCTGGTGGCCGATAAAGATCCGAAACCAAGGACTGAAGTGTAGAGAA	9335
QY	3361	TGGCCATATGTCGCTGTTGCTCATGAAATTCTCAAGGACTCTGGTGG	3420
Db	9336	TGGCCATATGTCGCTGTTGCTCATGAAATTCTCAAGGACTCTGGTGG	9395







Qy	781	TCA GTG ATG TGT GGT GTC CTC CTA TAA CTCA TAA CACT GAA CCT CTC AATA CTC TA AACT GAA CCT GTC TAT GTC TGT ATG	840
Db	6756	TCAGTATGTTGGTGTGCTCATATACTCAAGCTGGTATGCTCATGGCTATG	6815
Qy	841	TTATTACAGAAAAGAATAGAGTAGAAATCTCAACGGAAAGAGTCATGGCAA	900
Db	6816	TTATTACAGAAAAGAATAGAGTAGAAATCTCAACGGAAAGAGTCATGGCAA	6875
Qy	901	GACANGGAAGCTCCAAAGTGCAGAGATTCTGTGTTCTCCAGTGTGTTATGGCAA	960
Db	6876	GACAAGGAACCTCCAAAGTGCAGAGATTCTGTGTTCTCCAGTGTGTTATGGCAA	6935
Qy	961	GCGATPATTCTCCATACTAATGATGTGTTGATAATTTCGTGTATTGCCATCAGGAC	1020
Db	6936	GCGATPATTCTCCATACTAATGATGTGTTGATAATTTCGTGTATTGCCATCAGGAC	6995
Qy	1021	TCAACTGAGCCCTGTTGATTATGGAGCTTGTGCAAGACATGRCGACCCATTCACTG	1080
Db	6996	TCAACTGAGCCCTGTTGATTATGGAGCTTGTGCAAGACATGRCGACCCATTCACTG	7055
Qy	1081	CTGAACTTACTACTTACGCCCTCCAGACTCTAACGCTGATAGCGCTGAAACCAACATT	1140
Db	7056	CTGAACTTACTACTTACGCCCTCCAGACTCTAACGCTGATAGCGCTGAAACCAACATT	7115
Qy	1141	GTCACCATTAATCATCATTGTTGACTATTCAGTGTGCCCAGAAGCTCCCGTAAACACAG	1200
Db	7116	GTCACCATTAATCATCATTGTTGACTATTCAGTGTGCCCAGAAGCTCCCGTAAACACAG	7175
Qy	1201	GCACTCTAAACGGGAGGATTCTAACAGCTTACAGTGTGCAAGAGCTTACGTCGAACTG	1260
Db	7176	GCACTCTAAACGGGAGGATTCTAACAGTGTGCAAGAGCTTACGTCGAACTG	7235
Qy	1261	AAAGACCTGGCTCTTGGGAAAGGAAATCCCTTACCGACAACCTCTCTCAAGGT	1320
Db	7236	AAAGACCTGGCTCTTGGGAAAGGAAATCCCTTACCGACAACCTCTCTCAAGGT	7295
Qy	1321	ATTGTCAGGATCAAACTGGCTCATCTGGCTGAGCACCCACATGTCGCTGGCTGGACA	1380
Db	7296	ATTGTCAGGATCAAACTGGCTCATCTGGCTGAGCACCCACATGTCGCTGGCTGGACA	7355
Qy	1381	GTGACTTCTAATGTCGCTAACTTGTGACTGTCGATGAAAGTATTAGGATGGCTTGAG	1440
Db	7356	GTGACTTCTAATGTCGCTAACTTGTGACTGTCGATGAAAGTATTAGGATGGCTTGAG	7415
Qy	1441	CACTCACTGCTCATCTATCTCAACATCTGCTTACGGTGGCCTACTAGCCCT	1500
Db	7416	CACTCACTGCTCATCTATCTCAACATCTGCTTACGGTGGCCTACTAGCCCT	7475
Qy	1501	ATTGACAGAAGGAAGGACTGGTGTGAACTGGGCTGAACTTCTCTGAACTTCTCTG	1560
Db	7476	ATTGACAGAAGGAAGGACTGGTGTGAACTGGGCTGAACTTCTCTGAACTTCTCTG	7535
Qy	1561	GGATGCAAGGGCTCCAGAGGACCATGATTAGACATTGTCGACAGAAATTATGGCTG	1620
Db	7536	GGATGCAAGGGCTCCAGAGGACCATGATTAGACATTGTCGACAGAAATTATGGCTG	7595
Qy	1621	ATGTCMCTGGCCGGAAAGGGGGTGAACCTTCTCTGAACTTCTCTGAACTTCTCTG	1680
Db	7656	ATGTCMCTGGCCGGAAAGGGGGTGAACCTTCTCTGAACTTCTCTGAACTTCTCTG	7715
Qy	1741	TCTCCCTCTCTCTGAACTTCTCTGAACTTCTCTGAACTTCTCTGAACTTCTCTG	1800
Db	7716	TCTCCCTCTCTGAACTTCTCTGAACTTCTCTGAACTTCTCTGAACTTCTCTG	7775
Qy	1801	TAGCCACAGTAACTCTTGTGAGAGAACTATAATGTTATGCTTACAGGGAGAAA	1860
Db	7776	TAGCCACAGTAACTCTTGTGAGAGAACTATAATGTTATGCTTACAGGGAGAAA	7835
Qy	1861	AAAAAAAGAACCTCTGAAAGAGCTGACATTTCAGGAACTTACAGTAACTGAACTTG	1920
Qy	1921	CCAGTTTGTGCTGAACTCTGAGACTCTGGTCACTTGTGCTGAACTTGTGCTG	1980
Db	7836	AAAAAAAGAACCTCTGAAAGAGCTGACATTTCAGGAACTTACAGTAACTGAACTTG	7895
Qy	1981	CCACAGCTAAGGGAGGCTGAACTTGTGCTGAACTTGTGCTGAACTTGTGCTG	2040
Db	7896	CCAGTTTGTGCTGAACTCTGAGACTCTGGTCACTTGTGCTGAACTTGTGCTG	7955
Qy	2041	CATATGCTGATGAGGAGCTGAACTTGTGCTGAACTTGTGCTGAACTTGTGCTG	8016
Db	8016	CATATGCTGATGAGGAGCTGAACTTGTGCTGAACTTGTGCTGAACTTGTGCTG	8075
Qy	2101	CAACCTAGGCTTAGAAATCTCACTTATAGAGTACTAGCAACTTGTGCTGCTT	8076
Db	8076	CAACCTAGGCTTAGAAATCTCACTTATAGAGTACTAGCAACTTGTGCTGCTT	8135
Qy	2161	TGATCTGACGGAGATAATTCTTAAATTGGTTAACTCTGGAGAA	8195
Db	8136	TGATCTGACGGAGATAATTCTTAAATTGGTTAACTCTGGAGAA	8220
Qy	2221	CATATTGTTATTGTCCTGACAGTAACTGCTGTTAAATAGACGTTAACTTT	8255
Db	8196	CATATTGTTATTGTCCTGACAGTAACTGCTGTTAAATAGACGTTAACTTT	8255
Qy	2281	ATTATCTAAGGCGATGCAACCTAGATCTGCAAGGCGATACATCTGCAAGGCTATCT	8256
Db	8256	ATTATCTAAGGCGATGCAACCTAGATCTGCAAGGCGATACATCTGCAAGGCTATCT	8315
Qy	2341	GCTGACAAATATGCTGAAAGATGCTGCAAGAAACGGTATTATGCGCTTGTGCT	8316
Db	8316	GCTGACAAATATGCTGCAAGAAACGGTATTATGCGCTTGTGCT	8375
Qy	2401	CAGAGACACAGAAACATAGAAACCATGAAACCATGTCGAACTGTGTCACCC	8401
Db	8376	CAGAGACACAGAAACATAGAAACCATGAAACCATGTCGAACTGTGTCACCC	8435
Qy	2461	AGACCTCTCCACTCTGCTGAGGAGCTGCTGTCATTAATGTCGTCACCA	8461
Db	8436	AGACCTCTCCACTCTGCTGAGGAGCTGCTGTCACCA	8520
Qy	2521	CATCTGGCTTACCGTGTCACTAACAGAATTTCTAGGAGCTGCTGAACTTGTGTCACCA	8521
Db	8496	CATCTGGCTTACCGTGTCACTAACAGAATTTCTAGGAGCTGCTGAACTTGTGTCACCA	8555
Qy	2581	GTCGCCCTACTGCCAACCCAGATAAGGAGCTGCTGAACTTGTGTCACCA	8556
Db	8556	GTCGCCCTACTGCCAACCCAGATAAGGAGCTGCTGAACTTGTGTCACCA	8615
Qy	2641	GGATCAGAACTTTGGTTGAGTGTGCAAGGGGGCCATACACTCTGGTTCCGAAGGAGG	8616
Db	8616	GGATCAGAACTCTGGGCTTGTGAGGAGCTGCTGAACTTGTGTCACCA	8675
Qy	2701	AAGGGCTGGAGCTGCTAAGGAGCTGCTGAACTTGTGTCACCA	8735
Db	8736	AAGGGCTGGAGCTGCTAAGGAGCTGCTGAACTTGTGTCACCA	8795
Qy	2821	AGATCTAAGAATCCGCTATCTGGTGGGGTTGAGTGTGCTGCTG	8855
Db	8796	AGATCTAAGAATCCGCTATCTGGTGGGGTTGAGTGTGCTG	8915
Qy	2881	AGGGTTTGTGAGCTGCTGAACTTGTGCTGAACTTGTGCTG	9000
Db	8856	AGGGTTTGTGAGCTGCTGAACTTGTGCTGAACTTGTGCTG	9240
Qy	2941	GGCTCAGGGTTGTTGGTGAAGGAACTTACAGTAACTGAACTTG	9300



426	AAACACCGAATTAACCTTCCCACTTCCAGTCGAAATGTTAAACCTA	485
6401	AAACACCGAATTAACCTTAAAGAACCTTCCCACTTCCAGTCGAAATGTTAAACCTA	6460
b		
486	GGATTCTGTAAATAGGTTAAATTCTAGGCTGATCCAATTTCATTGTCATTC	545
b		
6461	GGATTCTGTAAATAGGTTAAATTCTAGGCTGATCCAATTTCATTGTCATTC	6520
b		
546	CTACCGTTATTCTACACCCACCTTAAATAATGCATTCCAAATAATTCCCTGATTCPACC	605
b		
6521	CTACCGTTATTCTACACCCACCTTAAATAATGCATTCCAAATAATTCCCTGATTCPACC	6580
b		
606	TATATATGGTAATCTGGCTTGGCAAGTTCTAGTGCTTAACTCTGATTACATC	665
b		
6581	TATATATGGTAATCTGGCTTGGCAAGTTCTAGTGCTTAACTCTGATTACATC	6640
b		
666	TTTATTAACTTAAAGTGGAAATAAGAATCTCCCTCTGAGGTTAGAGTCTCAGATGCC	725
b		
6641	TTTACTCTGACATCATTTAGGATTCAAGGAACTGCCAAGATCATCTCAGTTCTGAGGTTAGAGTCTCAGATGCC	6700
b		
726	CTTACTCTGACATCATTTAGGATTCAAGGAACTGCCAAGATCATCTCAGTTCTGAGGTTAGAGTCTCAGATGCC	785
b		
6701	CTTACTCTGACATCATTTAGGATTCAAGGAACTGCCAAGATCATCTCAGTTCTGAGGTTAGAGTCTCAGATGCC	6760
b		
786	GATTGTTGGTAGGCCCTCATATACTCAAGCTGGTTATGCTGATGGTTAT	845
b		
6761	GATTGTTGGTAGGCCCTCATATACTCAAGCTGGTTATGCTGATGGTTAT	6820
b		
846	TACAGCAAAAGAATAGATGCAAAATCTAGCAAGGAAAGTTCATGGGCAAAGACA	905
b		
6821	TACAGCAAAAGAATAGATGCAAAATCTAGCAAGGAAAGTTCATGGGCAAAGACA	6880
b		
906	GGAGAGCTCCAAAGTGGAGATTCTCTCCAGTGGTTCATGGAAAGGCT	965
b		
6881	GGAGAGCTCCAAAGTGGAGATTCTCTCCAGTGGTTCATGGAAAGGCT	6940
b		
966	ATCTTCCTCCATACAATGATGTTGATAATTACTGTTGCAATGGGAACTCAC	1025
b		
6941	ATCTTCCTCCATACAATGATGTTGATAATTACTGTTGCAATGGGAACTCAC	7000
b		
1026	TGAGCCCTGTATTATGGAGCTTGTGTTCTCCAGTGGTTCATGGTCAA	1085
b		
7001	TGAGCCCTGTATTATGGAGCTTGTGTTCTCCAGTGGTTCATGGTCAA	7060
b		
1086	CTTTACTCTAGGCCCTCAAGACTGCTACAGCTGATAGGCTGAACTTGTGAC	1145
b		
7061	CTTTCAGACTTGTGTTCTCAAGACTGCTACAGCTGATAGGCTGAACTTGTGAC	7120
b		
1146	CATAAATCACATTGTTGACTATCCAGTGGCTGAACTCCAGTGGAAATGCAAAAGA	1205
b		
7121	CATAAATCACATTGTTGACTATCCAGTGGCTGAACTCCAGTGGAAATGCAAAAGA	7180
b		
1206	CTAAACGGCAGGATATTCTAAAGGTTAGAGTACCTCCAGAAGCTGAAATGCAAAAGA	1265
b		
7181	CTAAACGGCAGGATATTCTAAAGGTTAGAGTACCTCCAGAAGCTGAAATGCAAAAGA	7240
b		
1266	CCTGGCTCTCTGGCAAGGGAATCTCTTACCGCAGACTCTCTTACAGGGTTATCT	1325
b		
7241	CCTGGCTCTCTGGCAAGGGAATCTCTTACCGCAGACTCTCTTACAGGGTTATCT	7300
b		
1326	CAGGATCAAATGCTGCTAGGATTAAGGTTAGAGTACCTCCAGAAGCTGAACTGAC	1385
b		
7301	CAGGATCAAATGCTGCTAGGATTAAGGTTAGAGTACCTCCAGAAGCTGAACTGAC	7360
b		
1386	TCTCTATGTTGCTGAGGACATTTGCTGAGCTAGAAGTATTAGGATGCTGAACTGCTCATTG	1445
b		
7361	TCTCTATGTTGCTGAGGACATTTGCTGAGCTAGAAGTATTAGGATGCTGAACTGCTCATTG	7420
b		
1446	ACAGATGCTCATCTAACTCTGCTGAGGACATTTGCTGAGCTAGGCTGATTCATTTG	1505
b		
7421	ACAGATGCTCATCTAACTCTGCTGAGGACATTTGCTGAGCTAGGCTGATTCATTTG	7480
b		
1506	ACAGAGAAAAGGACTCTGGATAGAGGGGGTGGACCAATAGGTGAGGTCATTCTGGATG	1565

8561	CCACTGCCAACCCAGATAAAGGAGCTCTCGAGGGGACATGGCTGGGCATC	8620
2646	AGAACTTCTGGCTTGACTGCCAGGGGCCATACTCTGGTTCCGAAGGAGAG	2705
8621	AGAACTTCTGGGTGACTGCCAGGGGCCATACTCTGGTTCCGAAGGAGAG	8680
2706	GCTGGAGGTGAATGTCCTGGGGAGAATGTTCTGAACTTAATCCCAG	2765
8681	GCTGGAGGTGAATGTCCTGGGGAGAATGTTCTGAACTTAATCCCAG	8740
2766	GGAGGAGACTGTAAGGTCAGCTCCAGCTGGAGGTTACTCACTGGAAATG	2825
8741	GGAGGAGCTGTAAGGTCAGCTCCAGCTGGAGGTTACTCACTGGAAATG	8800
2826	TAGAATCCGTATCCTGGAAAGGGGGCTGAAATTGTAGGGGTTAGTTG	2885
8801	TAGAATCCGTATCCTGGAAAGGGGGCTGAAATTGTAGGGGTTAGTTG	8860
2886	TTGTTAGCTTGTAGACTCTGGTCTGGGGCTCAGAGCTGAACTGGCTC	2945
8861	TTGTTACTTGTAGACTCTGGTCTGGGGCTCAGAGCTGAACTGGCTC	8920
2946	CAGGTATGGTGAAGTTAATGGATTCTGTGATCTCAAGGTCAAGACTGAG	3005
8921	CAGGTATGGTGAAGTTAATGGATTCTGTGATCTCAAGGTCAAGACTGAG	8980
3006	TGCCCCATGCTTGTATCTCCATTCACTCCATTCACTCCATTCACTCC	3065
8981	TGCCCCATGCTTGTATCTCCATTCACTCCATTCACTCCATTCACTCC	9040
3066	TCTAGTCCAAAGTGCCTGCTGCGCATGCTGGCTATGCTGGAG	3125
9041	TCTAGTCCAAAGTGCCTGCTGCGCATGCTGGAG	9100
3126	GCCTGGGCATCATCCACTCATCCACTCATCCACTCATCCACTCAT	3185
9101	GCCTGGGCATCATCCACTCATCCACTCATCCACTCATCCACTCAT	9160
3186	TGACGTCATGCTGAGCTCCGACTATCCCTGACCGGCTCTCCGTA	3245
9161	TGACGTCATGCTGAGCTCCGACTATCCCTGACCGGCTCTCCGTA	9220
3246	GAGCTGGAACTGGCTCCCTGGATGGCTGGCTGGCTGGCTGGCTGG	3305
9221	GAGCTGGAACTGGCTCCCTGGATGGCTGGCTGGCTGGCTGGCTGG	9280
3306	TGTCGATAAAGATCTGAAACCACGAAACCGGACTGAGATGCC	3365
9281	TGTCGATAAAGATCTGAAACCACGAAACCGGACTGAGATGCC	9340
3366	ATATGTCGCTGCTCCATGAAGAATCTCAAGGAACTCTGGTGGAGG	3425
9341	ATATGTCGCTGCTCCATGAAGAATCTCAAGGAACTCTGGTGGAGG	9400
3426	TACGGTTGCCCTGCCCAGTCACTGCTCCAGCTACAGGAGACTG	3485
9401	TACGGTTGCCCTGCCCAGTCACTGCTCCAGCTACAGGAGACTG	9460
3486	CCAGCTCATGCTCATGTCACATCTGACATCTGAACTGGGACT	3545
9461	CCAGCTCATGCTCATGTCACATCTGACATCTGAACTGGGACT	9520
3546	CACCATGGTGTGGAGAAAGGGGGTGGGGATGACTCTGGCTGGCT	3695
9521	CACCATGGTGTGGAGAAAGGGGGTGGGGATGACTCTGGCTGGCT	9580
3606	GAGGGGCATGACGGTGGGGAGGGCTGGACTCTGGCTGGCTGG	3645
9581	GAGGGGCATGACGGTGGGGAGGGCTGGACTCTGGCTGGCTGG	9620
QY	1225 CAAAGCTTAGAGTGAACCTCCAGGACTGATGCAAAGACTGGCCTCTTGGCAG	1284
DB	1 CAAGCTTAGAGTGAACCTCCAGGACTGATGCAAAGACTGGCCTCTTGGCAG	60
QY	1285 GAGATCCCTTAACGCCACACTCTCTTACAGGGTATTGTGAGGATCAAATGTCAT	1344
DB	61 GAGATCCCTTAACGCCACACTCTCTTACAGGGTATTGTGAGGATCAAATGTCAT	120
QY	1345 GTGTTGAGACACGGCACTGTCGTTGAGTGAATCTGCTGCTAATT	1404
DB	121 GTGTTGAGACACGGCACTGTCGTTGAGTGAATCTGCTGCTAATT	180
QY	1405 GTGAGTGTGAAAGTATTAGCATGCTTCAAGCTCACAGTCAATTC	1464

Db	181	GCTGAGGTAAAGAAAGTTAGGCATGGCTTCAAGACTCACAGATGCTCATCTAATCC 240	DT	23-NOV-1999 (first entry)
Qy	1465	TCAACAAATGGTACAGGTGGCACTACTAGCCTCATTTGACAGGAAAGGACTGCG 1524	XX	DE hKuK2 enhancer of construct CN390.
Db	241	TCAACAAATGGTACAGGTGGCACTACTAGCCTCATTTGACAGGAAAGGACTGCG 300	XX	KW prostate; cancer; drug assay; drug development; enhancer; promoter; tumour; kallikrein; androgen regulation; prostate specific antigen; construct; ss.
Qy	1525	ATAAGAGGGGTGACCAATAGGTGAGGCTATTGATCAAGGGTCCAGAGGCC 1584	XX	KW construct; ss.
Db	301	ATAAGAGGGGTGACCAATAGGTGAGGCTATTGATCAAGGGTCCAGAGGCC 360	OS	Synthetic.
Qy	1585	ATGATAGAACATGGTGCAGAGAAATTATGGCTGAATGCTTCAGGTAAGGGGA 1644	OS	Hom sapiens.
Db	361	ATGATAGAACATGGTGCAGAGAAATTATGGCTGAATGCTTCAGGTAAGGGGA 420	XX	WO941413-A2.
Qy	1645	TGCACPTTCCCTTGACCCCFATCTGATCTGACTTGAATGGTTCTGACTTCCT 1704	PD	19-AUG-1999.
Db	421	TGCACPTTCCCTTGACCCCFATCTGATCTGACTTGAATGGTTCTGACTTCCT 480	XX	99WO-US003117.
Qy	1705	ATGATACAGGAGCCATCAATACTCTCTCTGCTCCCTCAGTCCTACTGC 1764	PF	11-FEB-1999;
Db	481	ATGATACAGGAGCCATCAATACTCTCTCTGCTCCCTCAGTCCTACTGC 540	XX	98US-00022732.
Qy	1765	CCACTTCCCAGCTCATCCAGTGGCAGGTTGACAGTACCTTACCTTC 1824	PI	Henderson DR, Lamparski HG, Schuur ER, Yu DC;
Db	541	CCACTTCCCAGCTCATCCAGTGGCAGGTTGACAGTACCTTACCTTC 600	XX	WPI; 1999-527378/44.
Qy	1825	AGAGAACTTAAATGNTATCTACAGGGAGAAAAGAGACTCTGAAGAGCTG 1884	XX	Screening for compounds which inhibit prostate cancer using a cell line containing a marker whose expression is responsive to therapeutically active compounds.
Db	601	AGAGAACTTAAATGNTATCTACAGGGAGAAAAGACTCTGAAGAGCTG 660	XX	Claim 6; Page 49; 50DP; English.
Qy	1885	ACATTTACCACTGCAAACATAAGTAACCTGCACTTTGCTGCTGTAACCTA 1944	XX	This is the nucleotide sequence of the hKuK2 enhancer region contained in construct CN390. hKuK2 is a member of the kallikrein family, as is the prostate specific antigen (PSA), a chymoerpsin-like protein that is synthesized exclusively by normal, hyperplastic, and malignant prostatic epithelia. This tissue specific nature of PSA makes it an excellent biomarker for identifying benign prostatic hyperplasia (BPH) and prostate carcinoma (Cap). Elevated levels of PSA are indicative of BPH or Cap. Like PSA, hKuK2 is expressed exclusively in the prostate and is up-regulated by androgens, primarily by transcription activation. The proteins also exhibit a high degree of amino acid sequence identity and contain similar regulatory elements. The characterisation of genes whose expression is limited to the prostate allows the development of screening methods which can identify substances capable of specifically altering the expression of prostate-specific genes.
Db	661	ACATTTACCACTGCAAACATAAGTAACCTGCACTTTGCTGCTGTAACCTA 720	XX	Sequence 1172 BP; 334 A; 257 C; 268 G; 313 T; 0 U; 0 Other; Query Match 32.2%; Score 1172; DB 2; Length 1172;
Qy	1945	TGAGACCTCTGGTAGAGGAAAGAGATTATTACCAAGCTTAAGGGAGCATGAA 2004	CC	Best Local Similarity 10.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 1172; Conservative
Db	721	TGAGACTCTCCTGGTAGAGGAAAGAGATTATTACCAAGCTTAAGGGAGCATGAA 780	CC	1225 CAAAGCTTAGATGAGCTCCAGGCTTAATGCAAGACCTGCCTTGGCAAG 1284
Qy	2005	CTTGTGTCTCACATTGTTCACTTGCCTCCCAATTCATGGATGACAGGAGCTC 2064	CC	Db 1 CAAAGCTTAGATGAGCTCCAGGCTTAATGCAAGACCTGCCTTGGCAAG 60
Db	781	CTTGTGTCTCACATTGTTCACTTGCCTCCCAATTCATGGATGACAGGAGCTC 840	CC	1235 GAGATCTTACGGCAACTCTCTCCTCACGGGTTATTGGAGCTTAATGCTCAT 1344
Qy	2065	AGGTGATGGCACACGGGTTGTGGCAAAGGTGAGAACCTAGGCTTAAATCCTCAA 2124	CC	Db 61 GAGATCTTACGGCAACTCTCTCCTCACGGGTTATTGGAGCTTAATGCTCAT 120
Db	841	AGGTGATGGCACACGGGTTGTGGCAAAGGTGAGAACCTAGGCTTAAATCCTCAA 900	CC	1235 GGTGTGAGACACGGCACTACTGCTGAGGAAAGTGTGCTCAT 1404
Qy	2125	TCTTATAAGGGTACTAGGCAACTTGCAGTCTTGTGATCTGAGGGATATTCTT 2184	CC	Db 121 GGTGTGAGACACGGCACTACTGCTGAGGAAAGTGTGCTCAT 180
Db	901	TCTTATAAGGGTACTAGGCAACTTGTCCAGTCTTGTGATCTGAGGGATATTCTT 960	CC	1405 GCTGAGTGCCTAAGAAAGTATTGGCATGGCTTCAAGCACTCACAGATGCTCATTAATCC 1464
Qy	2185	TATAATTGGTTGAAGCAGGCTACTCTGGAGAACATTAGGCTTAAATGCTGAC 2244	DB	Db 181 GCTGAGTGCCTAAGAAAGTATTGGCATGGCTTCAACTCACAGATGCTCATTAATCC 240
Db	961	TATAATTGGTTGAAGCAGGCTACTCTGGAGAACATTAGGCTTAAATGCTGAC 1020	Qy	1465 TCACAAACATGGTACAGGTGCACTACTGCTGAGGAAAGGACTGCTGAGCTGTCATT 1524
Qy	2245	AGTAACAAATCTGCTGTAATAATAGGGTAACTTATTCTAACGGCTAACACC 2304	DB	Db 241 TCACAAATGGTACAGGTGCACTACTGCTGAGGAAAGGACTGCTGAGCTGTCATT 300
Db	1021	AGTAACAAATCTGCTGTAATAATAGGGTAACTTATTCTAACGGCTAACACC 1080	Qy	QY
Qy	2305	TAGATCTGAAGGGATAACATCTTGCAGGCTAACATTGCTGTTACAATATGCTGAAAGA 2364	DB	1525 ATAGGAAAGGGGTGACCAATGGCTTAAATGCTGAAAGA 1140
Db	1081	TAGATCTGAAGGGATAACCACTCTGGTACAATATGCTGAAAGA 1140	Qy	RESULT 11
Qy	2365	TGGTCCAAGAAAAAAAGCTTATTGCTT 23.96	DB	AAZ06494
Db	1141	TGGTCCAAGAAAAAAAGCTTATTGCTT 1.172	Qy	AAZ06494 standard; DNA; 1172 BP.
Qy			Db	AAZ06494
			Qy	1525 ATAGGAGGGGTGACCAATGGCTTCAAGGGTCAAGGGACTGAGCTGTCATT 1584



Cy	1424	TAGGCACTGGTTCAAGCACTACAGATGGTCATCTATACTCCTCACAACTGGCTAACGG	1483		Db	1439	CATTAGTGTGCTTACCGTGCCTAACATCTGGCTTACCGTGCCTAACAGTATTCTAGGTCAAGTT	1498
Db	360	TAGGCACTGGTTCAAGCACTACAGATGGTCATCTATACTCCTCACAACTGGCTAACGG	419		Qy	2564	CCACCATGTTGGAGTGGCCACTGCCACACCCAGAATAGGGAGTGTAGAATT	2623
Cy	1484	TGGCACTACTAGCTTCAATTGACAGGAAGGACTGTGATAGAACGGGTTGACAA	1543		Db	1499	CCACCATGTTGGAGTGGCCACTGCCACACCCAGAATAGGGAGTGTAGAATT	1558
Db	420	TGGCACTACTAGCTTCAATTGACAGGAAGGACTGTGATAGAACGGGTTGACAA	479					
Cy	1544	TAGGCACTGGTTCAAGCACTACAGATGGTCATCTGGCTTCCAGAACCCATGATTAGA	1603					
Db	480	TAGGCACTGGTTCAAGCACTACAGATGGTCATCTGGCTTCCAGAACCCATGATTAGA	539					
Cy	1604	AGAGAAATTATGGCTGGATCTCTGCCCCGAAAGGGGGATGACTTCCTGACCCC	1663					
Db	540	AGAGAAATTATGGCTGGATCTCTGCCCCGAAAGGGGGATGACTTCCTGACCCC	599					
Cy	1664	TATCTGATCTGACTTGAGGTATCTAGACTCTCTGATGAGAACATTAATGTTA	1723					
Db	600	TATCTGAGTGTGACTTGAGGTATCTAGACTCTGATGAGAACATTAATGTTA	659					
Cy	1724	ATAATCTCTGTGTCCTCCCTCTCTAGCTTACTGCTTACTGCCACTCTCCAGCT	1783					
Db	660	ATAATCTCTGTGTCCTCCCTCTCTAGCTTACTGCTTACTGCCACTCTCCAGCT	719					
Cy	1784	CTCCAGCTGGCAGGGTAGCACGACTCTAACCTCTGAGAACATTAATGTTA	1843					
Db	720	CTCCAGCTGGCAGGGTAGCACGACTCTAACCTCTGAGAACATTAATGTTA	779					
Cy	1844	TCCTACAGGGAGAaaaaaaaaaaACTCTGAAAGAGCTGACATTACCGACTTGCAA	1903					
Db	780	TCCTACAGGGAGAaaaaaaaaaaACTCTGAAAGAGCTGACATTACCGACTTGCAA	838					
Cy	1904	ACACATAAGCTAACCTGCCGTTTGCTGCTGTTGACACTCATGGACTCTGGCTCAG	1963					
Db	839	ACACATAAGCTAACCTGCCGTTTGCTGCTGTTGACACTCATGGACTCTGGCTCAG	898					
Cy	1964	GCAAAAGATTTATACCCAAGCTAAAGGGAACATGAGCTTGTGTCACATTGTT	2023					
Db	899	GCAAAAGATTTATACCCAAGCTAAAGGGAACATGAGCTTGTGTCACATTGTT	958					
Cy	2024	CACTTGGCCCAATTATCATATGGGATGATGAGCCATTGAGTCAGGGGG	2083					
Db	959	CACTTGGCCCAATTATCATATGGGATGATGAGCTTCAGGGGGACATGGGG	1018					
Cy	2084	TTTGTGGCAAGGTGAGCAACTTGGCTTACAGGGATGTCAGGGGG	2143					
Db	1019	TTTGTGGCAAGGTGAGCAACTTGGCTTACAGGGGGACATGGGG	1078					
Cy	2144	CAAACTGTCAAGTCTTGTATCTGAGGAGATTATCTCTTAAATGGTCAAGCA	2203					
Db	1079	CAAACTGTCAAGTCTTGTATCTGAGGAGATTATCTCTTAAATGGTCAAGCA	1138					
Cy	2204	GACCTACTCTGGAGGACATATTGATATTGATATTGCTGAGCTAACATGGCT	2263					
Db	1139	GACCTACTCTGGAGGACATATTGATATTGATATTGCTGAGCTAACATGGCT	1198					
Cy	2264	AAATAGCGTTAACTTATTCTGAGCTGAGTAACTGAGTCAAGGATAC	2323					
Db	1199	AAATAGCGTTAACTTATTCTGAGCTGAGTAACTGAGTCAAGGATAC	1258					
Cy	2324	ATCTTGAAAGGCTATCTGCTGACAATATGCTGAAAGATGGCTCCAGAAA	2383					
Db	1259	ATCTTGAAAGGCTATCTGCTGACAATATGCTGAAAGATGGCTCCAGAAA	1318					
Cy	2384	GTATTATGGCTTTCAGAGAACAGAACATAGAGAACCATGAAATTGCT	2443					
Db	1319	GTATTATGGCTTTCAGAGAACAGAACATAGAGAACCATGAAATTGCT	1378					
Cy	2444	CCAAACRGTGTCACCGAACCTCTGCTGAGCTTAACTCCAT	2503					
Db	1379	CCAAACRGTGTCACCGAACCTCTGCTGAGCTTAACTCCAT	1438					
Cy	2504	CATTAGTGTGCTTACCACTCTGGCTAACAAAGATTCTAGGTCAAGT	2563					

Db	1 CAAAGCTTAGAGATGACCTCCAGGGCTGAATGCAAAGACCTGGCCCTTTGGCAAG 60	DT	21-JUN-1999	(first entry)
Qy	1285 GAGAATCCTTACCGACACTCCCTCAAGGGTATTTGAGGATAAATGGCTAT 1344	XX	Human glandular kallikrein hKLU2 gene enhancer with mutated ARE.	
Db	61 GAGAACCTTACCGACACTCCCTCAAGGGTATTTGAGGATAAATGGCTAT 120	XX		
Qy	1345 GTGTGTGAGACACCACATGGCTGGCTGGACTCTATGNGCTTAACATT 1404	XX	Enhancer; glandular kallikrein-1; hKLU-1; human; prostate cancer;	
Db	121 GTGTGAGACACCACATGGCTGGCTGGACTCTATGNGCTTAACATT 180	XX	therapy; androgen response element; mutant; ss.	
Db	181 GCTGAGTGTGAGAAAGTATTAGGCATGGCTTCAGCACTCACATCAATC 1464	OS	Homo sapiens.	
Db	1405 GCTGAGTGTGAGAAAGTATTAGGCATGGCTTCAGCACTCACATCAATC 240	OS	Synthetic.	
Qy	1465 TCACACATGGCTACGGGGCACTACTAGCCTCATTTGACAGGAAAGACTGTG 1524	XX	Key Location/Qualifiers mutation replace (93..1007, GTACTATATACTAGT) FT FT /tag= "mutated androgen response element"	
Db	241 TCACACATGGCTACGGGGCACTACTAGCCTCATTTGACAGGAAAGACTGTG 300	PN	W09906576-A1.	
Qy	1525 ATAAGAGGGGTGACCATAGGTAGAGTCATCTGGATGCAAGGGGCC 1584	XX		
Db	301 ATAAGAGGGGTGACCATAGGTAGAGTCATCTGGATGCAAGGGGCC 360	PD	11-FEB-1999.	
Qy	1585 ATGATTAGACATTGTGTGACGAAATTAGGCTGGATGCTCTGGGGAAAGGGGA 1644	XX	PF 04-AUG-1998; PR 04-AUG-1997; PR 02-MAR-1998; PR 03-AUG-1998;	
Db	361 ATGATTAGACATTGTGTGACGAAATTAGGCTGGATGCTCTGGGGAAAGGGGA 420	XX	PR 98US-00127834. PA (CALYDON INC.	
Qy	1645 TGCACTTCCCTGACCCCTATCTGAGCTTGAAGTTCTAGACTTCTCT 1704	XX	Yu D., Herdenson DR, Schuur ER;	
Db	421 TGCACTTCCCTGACCCCTATCTGAGCTTGAAGTTCTAGACTTCTCT 480	XX	PI WPI: 1999-153804/13.	
Qy	1705 ATGATACCGAGGCCATATAATCTCTGTCCTCTCCCTCTAGCTTACTGC 1764	XX	New nucleic acid containing the human glandular kallikrein enhancer -	
Db	481 ATGATACCGAGGCCATATAATCTCTGTCCTCTCCCTCTAGCTTACTGC 540	PT	providing increased expression of heterologous sequences in prostatic	
Qy	1765 CCACCTTCCCAGCTCCATCTCCAGCTGCCAGGTGACCAAGTAACTCTTG 1824	PT	cells, and related adenoviral vectors for treating prostatic cancer.	
Db	541 CCACCTTCCCAGCTCCATCTCCAGCTGCCAGGTGACCAAGTAACTCTTG 600	PS	Example 7; Page 169; 179pp; English.	
Qy	1825 AGAGACTTAAATGTGATCTACAGGGAGAAAAGAACCTGAAAGACTG 1884	XX	This polynucleotide is based on nucleotides 7200-8371 of the 5' flanking	
Db	601 AGAGACTTAAATGTGATCTACAGGGAGAAAAGAACCTGAAAGACTGCTG 660	CC	region of the human glandular kallikrein (hKLU2) gene (see AAX4755), but	
Qy	1885 ACATTTCACCGACTTGCAACACATCCAGCTGCCAGGTGACCAAGTAACTCTTG 1944	CC	the putative androgen response element (ARE) of the native sequence (see	
Db	661 ACATTTCACCGACTTGCAACACATCCAGCTGCCAGGTGACCAAGTAACTCTTG 720	CC	AAX24772) has been mutated. This mutation was shown to affect the	
Qy	1945 TGAGACTCTGGCTGAGCCAAAGATTTTACCCACGCTAAGGGAGCATGA 2004	CC	enhancer function of this region of the hKLU2 gene. hKLU2 enhancers of	
Db	721 TGAGACTCTGGCTGAGCCAAAGATTTTACCCACGCTAAGGGAGCATGA 780	CC	the invention have been shown to increase the transcription of cis-linked	
Qy	2005 CTTCCTGTTTACATTGTTGACCTTGGCCCCATTATGCGATGACAGCAGCTTC 2064	CC	coding sequences in prostate cells. Methods of using DNA constructs	
Db	781 CTTCCTGTTTACATTGTTGACCTTGGCCCCATTATGCGATGACAGCAGCTTC 840	CC	comprising the enhancers to control transcription of heterologous	
Qy	2065 AGGTGATGACACAGGGTTGGCCAAGGGCAACCTAGGCTTAAGAATCTCA 2124	CC	polynucleotides are provided. Adenoviral vectors in which one or more	
Db	841 AGGTGATGACACAGGGTTGGCCAAGGGCAACCTAGGCTTAAGAATCTCA 900	CC	genes are under transcriptional control of a hKLU2 transcription	
Db	2125 TCTTATAAGAGGACTAGAAACTTGTCACTTCTATCTGACGGAATATTCT 2184	Qy	CC regulatory element are claimed, and can be used to confer selective	
Db	901 TCTTATAAGAGGACTAGAAACTTGTCACTTCTATCTGACGGAATATTCT 960	Db	cytotoxicity in mammalian cells for use e.g. in the treatment of prostate	
Qy	2185 TATAATTGGTTGAAAGCAACCTACTCTGGAG 2217	Qy	cancer	
Db	961 TATAATTGGTTGAAAGCAACCTACTCTGGAG 993	Db	Sequence 1172 BP; 334 A; 258 C; 267 G; 313 T; 0 U; 0 Other;	
Qy	1405 GCTGAGTGTGAGACACAGCAATGCTGGCTGAGGTTAGGCAATCTATCCATC 1464	Qy	Query Match 27.2%; Score 993; DB 2; Length 1172;	
Db	181 GCTGAGTGTGAGACACAGCAATGCTGGCTGAGGTTAGGCAATCTATCCATC 180	Db	Best Local Similarity 100.0%; Prod. No. 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1225 CAAAGCTTAGAGTAGCTCCCTCCAGGAGCTGAACTCTGGCAG 1284	Qy	Matches 993; Conservative 0; MisMatches 0; Indels 0; Gaps 0;	
Db	1 CAAAGCTTAGAGTAGCTCCCTCCAGGAGCTGAACTCTGGCAG 60	Db		
Qy	1285 GAGATCCCTTACCCACACTCTCTCAAGGTTATGTGAGGATCAAATGTGCT 1344	Qy		
Db	61 GAGATCCCTTACCCACACTCTCTCAAGGTTATGTGAGGATCAAATGTGCT 120	Db		
Qy	1345 GTGTTGAGACACAGCAATGCTGGCTGAGGTTAGGCAATCTATCCATC 1404	Qy		
Db	121 GTGTTGAGACACAGCAATGCTGGCTGAGGTTAGGCAATCTATCCATC 180	Db		
RESULT 14				
AAK4773				
ID AAX24773 standard: DNA; 1172 BP.				
XX				
AC AAX24773:				
XX				

Qy	1465	TCACAACTATGGCTACAGGGGGCACACTAGCCCATTTGACAGAGGAAGGACTGTGG	1524	XX	11-FEB-1999;	PF	99WC-US003117.
Db	241	TCAACATGGCTAAGGACTATAGCCATTAGGCTTCAAGGACTACTAGCCATTTGACAGAGGAAGGACTGTGG	300	XX	PR	12-FEB-1998;	98US-00022732.
Qy	1525	ATAAGAGGGGTGACCAATAGGCTAGAGTCATCTGGATGCAAGGGCTCCAGAGGCC	1584	XX	PA	(CAYL-) CALYDON INC.	
Db	301	ATAAGAGGGGTGACCAATAGGCTAGAGTCATCTGGATGCAAGGGCTCCAGAGGCC	360	XX	PI	Henderson DR, Lamparski HG, Schaurr ER, Yu DC;	
Qy	1585	ATGATTAAGCATTTGCTGCAGAGAAATTATGGCTTGATGCTTGTGCCCCGAAAGGGGA	1644	XX	DR	WPI : 1999-527378/44.	
Db	361	ATGATTAAGCATTTGCTGCAGAGAAATTATGGCTTGATGCTTGTGCCCCGAAAGGGGA	420	XX	PT	Screening for compounds which inhibit prostate cancer using a cell line containing a marker whose expression is responsive to therapeutically active compounds.	
Qy	1645	TGCACATTTCCTTGACCCCPATCAGATTTGAGTTGAGGTATTCAGACTTCCTCT	1704	XX	PT	Screening for compounds which inhibit prostate cancer using a cell line containing a marker whose expression is responsive to therapeutically active compounds.	
Db	421	TGCACATTTCCTTGACCCCPATCAGATTTGAGTTGAGGTATTCAGACTTCCTCT	480	XX	PS	Claim 6; Page 50; 50pp; English.	
Qy	1705	ATGATACAGGAGCCATCATATACTCTCTGTCCTCTCCCTAGTCAGTTACAGC	1764	XX	This is the nucleotide sequence of the hKLK2 enhancer region contained in construct CN457. hKLK2 is a member of the kallikrein family, as is the prostate specific antigen (PSA), a chymotrypsin like protein that is synthesized exclusively by normal, hyperplastic, and malignant prostatic epithelia. This tissue specific nature of PSA makes it an excellent biomarker for identifying benign prostatic hyperplasia (BPH) and prostate carcinoma (Cap). Elevated levels of PSA are indicative of BPH or Cap. Like PSA, hKLK2 is expressed exclusively in the prostate and is up regulated by androgens, primarily by transcription activation. The proteins also exhibit a high degree of amino acid sequence identity and contain similar regulatory elements. The characterisation of genes whose expression is limited to the prostate allows the development of screening methods which can identify substances capable of specifically altering the expression of prostate-specific genes.		
Db	481	ATGATACAGGAGCCATCATATACTCTCTGTCCTCTCCCTAGTCAGTTACAGC	540	XX	SQ	Sequence 1172 BP; 334 A; 258 C; 267 G; 313 T; 0 U; 0 Other;	
Qy	1765	CCACTTCCAGCTCATCCACCTCCAGCTCATCCACCTCCAGCTCATCCACCTCC	1824	CC	Query Match Score 993; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 993; Conservative 0;		
Db	541	CCACTTCCAGCTCATCCACCTCCAGCTCATCCACCTCCAGCTCATCCACCTCC	600	CC	Sequence 1172 BP; 334 A; 258 C; 267 G; 313 T; 0 U; 0 Other;		
Qy	1825	AGAGAACTATAATGGTATCTACAGGGAGAAAAAAAGACTCTGAAGAGCTG	1884	CC	Query Match Score 993; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 993; Conservative 0;		
Db	601	AGAGAACTATAATGGTATCTACAGGGAGAAAAAAAGACTCTGAAGAGCTG	660	CC	Sequence 1172 BP; 334 A; 258 C; 267 G; 313 T; 0 U; 0 Other;		
Qy	1885	ACATTTCACCGACTTGTGAAACATAAGCTAACCTGCAAGTTTGCTGGTAGAACCTCA	1944	CC	Query Match Score 993; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 993; Conservative 0;		
Db	661	ACATTTCACCGACTTGTGAAACATAAGCTAACCTGCAAGTTTGCTGGTAGAACCTCA	720	CC	Sequence 1172 BP; 334 A; 258 C; 267 G; 313 T; 0 U; 0 Other;		
Qy	1945	TGAGACTCTGGCTAGAGGCAAAGATAATTATPACCCACAGCTAACGGCCGATCAA	2004	XX	Query Match Score 993; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 993; Conservative 0;		
Db	721	TGAGACTCTGGCTAGAGGCAAAGATAATTATPACCCACAGCTAACGGCCGATCAA	780	XX	Query Match Score 993; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 993; Conservative 0;		
Qy	2005	CTTTGTGTTACATTGTTACTTGGATGATGAGCAGTC	2064	Qy	1225 CAAAAGGTTAGAGTACCCCTACGGCTTACAGGCTTAATGGCAAGCTCTTGGCCAAG	1284	
Db	781	CTTTGTGTTACATTGTTACTTGGATGATGAGCAGTC	840	Db	1 CAAAGGTTAGAGTACCCCTACGGCTTACAGGCTTAATGGCAAGCTCTTGGCCAAG	60	
Qy	2065	AGGTGGATGGACACAGGGTTGTGCAAGGAACTTGTGCAAGGAAATTCTCAA	2124	Qy	1285 GAGAATCTTCTACGGCTACACTCTCTCCTACAGGGTTATTGTGAGGATCAAATGTGCTCAT	1344	
Db	841	AGGTGGATGGACACAGGGTTGTGCAAGGAACTTGTGCAAGGAAATTCTCAA	900	Db	61 GAGAATCTTCTACGGCTACACTCTCTCCTACAGGGTTATTGTGAGGATCAAATGTGCTCAT	120	
Qy	2125	TCTTATAAGGGTACTACGAAACTTGTGCAAGGAAATTCTGACGGAGATATTCTT	2184	Qy	1345 GTGTGTGAGAACAGAACAGTGTGCAAGGAAATTCTGACGGAGATATTCTT	1404	
Db	901	TCTTATAAGGGTACTACGAAACTTGTGCAAGGAAATTCTGACGGAGATATTCTT	960	Db	121 GTGTGTGAGAACAGAACAGTGTGCAAGGAAATTCTGACGGAGATATTCTT	180	
Qy	2185	TATAATTGGTTGAAAGCAGACCTACTCTGGG	2217	Qy	1405 GCTGAGTGTCTAAAGAAACTTAAAGCATGGCTTCAAGCACTACAGATGCTCATTAATCC	1464	
Db	961	TATAATTGGTTGAAAGCAGACCTACTCTGGG	993	Db	181 GTGTGTGCTGAGAAGTATTAGGATGGCTTCAACTACAGATGCTCATTAATCC	240	
Qy				Qy	1465 TCACACATGGCTACAGGTGGCACTACTAGTCAGGCTTCAAGGAAAGGACTGTGG	1524	
Db				Db	301 ATAAGAGGGGGTCAAGGAAATAGGTGAGTCATTCTGGATCAAGGGCTCAGGGACC	360	
AC	AAZ06495	standard; DNA; 1172 BP.		Qy	1525 ATAAGAGGGGGTCAAGGAAATAGGTGAGTCATTCTGGATCAAGGGCTCAGGGACC	1584	
XN				Db	301 ATAAGAGGGGGTCAAGGAAATAGGTGAGTCATTCTGGATCAAGGGCTCAGGGACC	360	
DT	23-NOV-1999	(first entry)		Qy	1585 ATGATTAAGACATTGCTGAGAAATTATGGCTGATGTTCTGCCCCTGAAAGGGGA	1644	
XX				Db	361 ATGATTAAGACATTGCTGAGAAATTATGGCTGATGTTCTGCCCCTGAAAGGGGA	420	
DE		hKLK2 enhancer of construct CN457.		Qy	1645 TGCACTTTCCPTGACCCPATCTAGATCTGGTTGAGCTCTACTCTGC	1704	
XX				Db	421 TGCACATTCTCTGACCCPATCTAGATCTGGTTGAGCTCTACTCTGC	480	
KW		prostate; cancer; drug assay; drug development; enhancer; promoter; tumour; kallikrein; androgen regulation; prostate specific antigen; construct; ss.		Qy	1705 ATGATACAGGAGCCATCATATACTCTGACCCPATCTAGATCTGGTTGAGCTCTACTCTGC	1764	
OS				Db	481 ATGATACAGGAGCCATCATATACTCTGACCCPATCTAGATCTGGTTGAGCTCTACTCTGC	540	
OS		Synthetic.					
OS		Homo sapiens.					
PN	W09911413-A2.						
XX							
PD	19-AUG-1999.						



Db 781 CTTCTGTCACATTGGTCACTTGGCCCAATTCAATGGATGATCAGGAGTC 840  
 Qy 2065 AGGTGGATGACAAGGGTTTGTGCAAGGTGAGAACCTAGGCTTAGAATCTCAA 2124  
 Db 841 AGGGGGATGGACACAGGGTTTGGCAAGGTGAGAACCTAGGCTTAGAATCTCAA 900  
 Qy 2125 TCTTATAAGGGTACTGAACTTGTCAGTCTTGTATCTGACGGAGATATTCTT 2184  
 Db 901 TCTTATAAGGGTACTGAACTTGTCAGTCTTGTATCTGACGGAGATATTCTT 960  
 Qy 2185 TATAATTGGTTGAAGGCAGACCTACTCTGGAG 2217  
 Db 961 TATAATTGGTTGAAGGCAGACCTACTCTGGAG 993

RESULT 17  
 AACF82694 standard; DNA; 204 BP.  
 ID AACF82694  
 XX DT 18-JUN-2001 (first entry)  
 AC DE Glandular HK2 enhancer core sequence.  
 XX  
 XX Androgen response element; ARE; cytostatic; gene therapy;  
 XX prostate-specific chimeric enhancer; transcriptional regulation;  
 XX targeted gene expression; prostate cancer; Prostate disorder;  
 XX prostate specific antigen; PSA; glandular HK2; ds.  
 OS Unidentified.  
 XX WO200127256-A2.  
 XX PD 19-APR-2001.  
 XX PF 13-OCT-2000; 2000W0-US028444.  
 XX PR 14-OCT-1999; 99US-0159691P.  
 PR 15-OCT-1999; 99US-0159730P.  
 XX PA (RESC ) UNIV CALIFORNIA SYSTEM.  
 XX PI Wu L, Carey MF, Belldegrun AS;  
 XX DR WPI; 2001-273768/2B.  
 XX New polynucleotide, useful for treating prostatic cancer, comprises  
 PT prostate specific chimeric enhancer and proximal promoter sequence  
 PT operably linked to nucleic acid encoding heterologous polypeptide.  
 XX  
 PS Claim 17; Page 80; 131PP; English.

XX The present sequence may be used in an invention relating to an isolated  
 CC polynucleotide comprising a prostate-specific chimeric enhancer (PSE)  
 CC sequence and a proximal promoter sequence operably linked to a nucleic  
 CC acid segment that encodes a heterologous polypeptide. The PSE contains an  
 CC ARE and specifically activates transcription of the nucleic acid segment  
 CC in a mammalian prostate cell. The construct is useful for the treatment  
 CC of a prostate disorder or a metastasized prostate cancer, such as  
 CC hyperplasia or hyperproliferation of prostate cells. It is also useful  
 CC for directing the tissue-specific expression of heterologous  
 CC polypeptide in a human prostate cell. The construct may be administered  
 CC by injection, infection, transformation, liposome-mediated transfection,  
 CC polybrene-mediated transfection, receptor mediated uptake or Ca-PO4-  
 CC mediated transformation  
 XX Sequence 204 BP; 67 A; 34 C; 39 G; 64 T; 0 U; 0 Other;  
 XX SQ Query Match 5.6%; Score 204; DB 5; Length 204;  
 Best Local Similarity 100.0%; Pred. No. 7.9e-88;  
 Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Search completed: August 11, 2004 , 03:40:18  
 Job time : 8672 secs

OM nucleic - nucleic search, using sw model  
 Run on: August 10, 2004, 13:51:43 ; Search time 8672 Seconds  
 (without alignments)  
 12551.620 Million cell updates/sec

Title: US-09-875-228-1\_COPY\_5976\_9620  
 Perfect score: 3645  
 Sequence: 1 ggccctcaataatgttaag.....ggaggaggctggactggc 3645

Scoring table: OLIGO\_NUC  
 Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

Word size : 150

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 0  
 Maximum DB seq length: 200000000

Post-processing: Listing first 250 summaries

Database :

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  3: em_estin:*
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  7: em_estro:*
  8: em_htc:*
  9: gb_est1:*
  10: gb_est2:*
  11: gb_htc:*
  12: gb_est3:*
  13: gb_est4:*
  14: gb_est5:*
  15: em_estfun:*
  16: em_estcom:*
  17: em_gss_hum:*
  18: em_gss_inv:*
  19: em_gss_plin:*
  20: em_gss_vrt:*
  21: em_gss_fun:*
  22: em_gss_mam:*
  23: em_gss_mus:*
  24: em_gss_pro:*
  25: em_gss_rid:*
  26: em_gss_phg:*
  27: em_gss_vrl:*
  28: gb_gss1:*
  29: gb_gss2:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query ID	Score	Match Length	DB	Description
No matches found					

**This Page Blank (up to)**

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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw mode!

Run on: August 10, 2004, 13:51:43 ; Search time 13686 Seconds  
(without alignments)  
11543.574 Million cell updates/sec

Title: US-09-875-228-1\_COPY\_5976\_9620

Perfect score: 3645

Sequence: 1 ggccctcaataatgtttaag.....ggasgaggctgtgactggc 3645

Scoring table: Oligo\_NUC  
Gapop=60.0 , Gapext 60.0

Searched: 3470272 seqs, 2167151695 residues

Word size : 150

Total number of hits satisfying chosen parameters: 16

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 250 summaries

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7: gb\_bh:\*

8: gb\_dl:\*

9: gb\_pr:\*

10: gb\_ro:\*

11: gb\_sts:\*

12: gb\_sy:\*

13: gb\_ur:\*

14: gb\_vl:\*

15: em\_ba:\*

16: em\_fun:\*

17: em\_hum:\*

18: em\_in:\*

19: em\_mu:\*

20: em\_Om:\*

21: em\_or:\*

22: em\_ov:\*

23: em\_Dat:\*

24: em\_Ph:\*

25: em\_Pl:\*

26: em\_Ro:\*

27: em\_sts:\*

28: em\_un:\*

29: em\_vl:\*

30: em\_htg\_hum:\*

31: em\_htg\_inv:\*

32: em\_htg\_other:\*

33: em\_htg\_nus:\*

34: em\_htg\_Dln:\*

35: em\_htg\_Rod:\*

36: em\_htg\_Nam:\*

37: em\_htg\_Yrt:\*

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39: em\_htgo\_hum:\*

40: em\_htgo\_mus:\*

41: em\_htgo\_other:\*

## Pred. No. is the number of results predicted by chance to have a

## SUMMARIES

	Result No.	Score	Query	Match	Length	DB	ID	Description
	1	3645	100.0	12047	6	AR078691		AR078691 Sequence
	2	3645	100.0	12047	6	AR266428		AR266428 Sequence
	3	3645	100.0	12047	6	AX259151		AX259151 Sequence
	4	3645	100.0	12047	6	AX262356		AX262356 Sequence
	5	3645	100.0	12047	6	BD195482		BD195482 Adenoviru
	6	3645	100.0	12047	6	BD224259		BD224259 Adenoviru
	7	3645	100.0	12282	9	AF113169		AF113169 Homo sapi
	8	2750	75.4	40458	9	AC011523		AC011523 Homo sapi
	c	9	2750	75.4	2	AC027602		AC027602 Homo sapi
	10	2750	75.4	230000	9	AF243527		AF243527 Homo sapi

## ALIGNMENTS

RESULT	1	AR078691	LOCUS	AR078691	DEFINITION	Sequence 1 from patent US 5964371.	DNA	linear	PAT 31-AUG-2000
			DEFINITION						
			ACCESSION	AR078691	VERSION	AR078691.1			
			KEYWORDS						
			SOURCE	Unknown.					
			ORGANISM	Unclassified.					
			REFERENCE	1 bases 1 to 12047)					
			AUTHORS	McCabe,R.Paul.					
			TITLE	Disposable reservoir for evaporative coolers					
			JOURNAL	US 564371,A 1 12-OCT-1999;					
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			Best Local Similarity	100.0%	Pred. No.	0;			
			Matches	3645;	Mismatches	0;	Indels	0;	Gaps 0;
Qy	1	GCCCTCAATTGTTAAGATGGAAATGTGTCRAAGTGGAAACTA	60						
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Qy	61	CTGTCAGGAGATTCCTGAGCTTAAGGTGAAATAGAACCTGGAGCTTGCGTT	120						
Db	6036	CTGTCAGGAGATTCCTGAGCTTAAGGTGAAATAGAACCTGGAGCTTGCGTT	6095						
Qy	121	CTTCAGCTTCCGAGCACATATTGACATGTTGCGACTGTCATTGGGTTGGPATTTC	180						
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Qy	181	GTTGGCTTCCGAGCACATATTGACATGTTGCGACTGTCATTGGGTTGGPATTTC	240						
Db	6156	GTTGGCTTCCGAGCACATATTGACATGTTGCGACTGTCATTGGGTTGGPATTTC	6275						



Db	Qy	3601	GCCCCAAGGGGCCATGACCCGTGGGAGGAGCTGTGACTGGC	3645
Db	Db	9576	GCCCCAAGGGGCCATGACCCGTGGGAGGAGCTGTGACTGGC	9620
RESULT 2				
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JOUS	JOUS	Sequence 11 from Patent US 6495130.		PAT 10-APR-2003
DEFINITION	DEFINITION			
AR266428	AR266428			
ACCESSION	ACCESSION			
AR266428.1	AR266428.1			
KEYWORDS	KEYWORDS			
SOURCE	SOURCE			
ORGANISM	ORGANISM			
Unclassified	Unclassified			
1 (bases 1 to 12047)	1 (bases 1 to 12047)			
Henderson, D.R. and Yu, D.C.	Henderson, D.R. and Yu, D.C.			
TITLE	TITLE			
Target cell-specific adenoviral vectors containing E3 and methods	Target cell-specific adenoviral vectors containing E3 and methods			
of use thereof	of use thereof			
Patent:	Patent:	US 6495130-A 11-17-DEC-2002;		
JOURNAL	JOURNAL			
FEATURES	FEATURES			
Location/Qualifiers	Location/Qualifiers			
source	source			
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ORIGIN	ORIGIN			
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Best Local Similarity	Best Local Similarity	100.0%	DB 6;	Length 12047;
Matches	Matches	Pred. No. 0;	Mismatches	
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Conservative	Conservative	0;	Gaps	0;
5976	5976			
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6276 ATTATCTGAGTGGAGCATCCATTCGCTGCGAGTATAATCTGCAATGTC	6276 ATTATCTGAGTGGAGCATCCATTCGCTGCGAGTATAATCTGCAATGTC	6335		
3.61 CAGTGACCCGGTCTGGCATTCACCTCATATACTGAGCTGGCTATCTT	3.61 CAGTGACCCGGTCTGGCATTCACCTCATATACTGAGCTGGCTATCTT	480		
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4.81 ACCTAGGATTCTGGTTAATAGGTCAATGAAATTCAGCTGATCCAATCTT	4.81 ACCTAGGATTCTGGTTAATAGGTCAATGAAATTCAGCTGATCCAATCTT	540		
6456 ACCTAGGATTCTGGTTAATAGGTCAATGAAATTCAGCTGATCCAATCTT	6456 ACCTAGGATTCTGGTTAATAGGTCAATGAAATTCAGCTGATCCAATCTT	6515		
541 TCCCTACCGTTATTCTAACCCACTTAAATGGATTCCCAATAATTCCCTG	541 TCCCTACCGTTATTCTAACCCACTTAAATGGATTCCCAATAATTCCCTG	600		
6516 TCCCTACCGTTATTCTAACCCACTTAAATGGATTCCCAATAATTCCCTG	6516 TCCCTACCGTTATTCTAACCCACTTAAATGGATTCCCAATAATTCCCTG	6575		
601 CTACCTATATGTTAACTCTGCTTTCGCACTTCTAGTGCATTACATCTG	601 CTACCTATATGTTAACTCTGCTTTCGCACTTCTAGTGCATTACATCTG	660		

Db	6576	CTACCTATATGGTAATCTGGCTTGCAGTTCTAGGGATTACATACTGATTAA	6635	Qy	1741	TCTCCCTTCAGTCTTACTGCCACTCTCCACCTCCATCTCAGCTGCCAGCTG	1800
Qy	6611	CATCTTACTTAACTGGAAATAAGCTCCCTCGCAAGTTCAAGA	720	Db	7716	TCTCCCTTCAGTCTTACTGCCACTCTCCACCTCCATCTCAGCTGCCAGCTG	7775
Db	66346	CATCTTACTTAACTGGAAATAAGCTCCCTCGCAAGTTCAAGA	6695	Qy	1801	TAGGCCACTACCTAACCTTTCAGAACTATAATGTGATCCACAGGAGAAA	1860
Qy	7211	TGGCCCTTACTTCTGACATCAATTGAAATTCAAGCTTCTCAGGT	780	Db	7776	TAGGCCACTACCTAACCTTTCAGAACTATAATGTGATCCACAGGAGAAA	7835
Db	66956	TGGCCCTTACTTCTGACATCAATTGAAATTCAAGCTTCTCAGGT	6755	Qy	1861	AAAAAAAGAACTCTGAAGAGTGTACATTTCAGCATGAAACATAAGCTAAC	1920
Qy	781-	TCACTGATTCGCTGTTAGCCCTCATATACTGAAAGCTTGTAGCTCATGGT	840	Db	7836	AAAAGAAACTCTGAAGAGTGTACATTTCAGCATGAAACATAAGCTAAC	7895
Db	67556	TCACTGATTCGCTGTTAGCCCTCATATACTGAAAGCTTGTAGCTCATGG	6815	Qy	1921	CCAGTTTGCGCTGAGAACTCTGAAGACTCTGGCTCAGGGAAAGATTATATAC	1980
Qy	841	TTTATTACGCCAAAGAAATCTGAAAGGAAAGGTGCAATGGGCAA	900	Db	7896	CCAGTTTGCGCTGAGAACTCTGAAGACTCTGGCTCAGGGAAAGATTATATAC	7955
Db	6816	TTTATTACGCCAAAGAAATCTGAAAGGAAAGGTGCAATGGGCAA	6875	Qy	1981	CCACAGCTTAAAGGCCAGCTGAGCTGAACTTCTGCTCAGATTGTTCA	2040
Qy	901	GACAGGAGAGCTCAAGTGCAGGAGATTCTGTGTTCCAGTGTCATGAA	960	Db	7956	CCACAGCTTAAAGGCCAGCTGAGCTGAACTTCTGCTCAGATTGTTCA	8015
Db	6876	GACAGGAGAGCTCAAGTGCAGGAGATTCTGTGTTCCAGTGTCATGAA	6935	Qy	2041	CATACTGGATGATGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG	2100
Qy	961	GCGATATCTCTCCATACATGATGTCGATATAATCTGATGAACTCAGGAAAC	1020	Db	8016	CTATGGGATGATGAGGAGCTGAGGAGCTGAGGAGCTGAGGAGCTGAG	8075
Db	69336	GCGATATCTCTCCATACATGATGTCGATATAATCTGATGAACTCAGGAAAC	6995	Qy	2101	CAACCTAGGTTAGAAATCTCAATCTTAAAGGTACTGCAACTCTGTCAGCTT	2160
Qy	1021	TCAACTGAGCCTTCAATTATTGAGCTTCTCAGAGCACCTTCATGG	1080	Db	8076	CAACCTAGGTTAGAAATCTCAATCTTAAAGGTACTGCAACTCTGTCAGCTT	8135
Db	69956	TCAACTGAGCCTTCAATTATTGAGCTTCTCAGAGCACCTTCATGG	7055	Qy	2161	TGTATCTGAGGAGATATTATCTTAAATTGGTTGAAGGAGACCTACTCTGGAGAA	2220
Qy	1081	CTGAACTTTAGTACTTACCTGCCCCCTCAGAGCTTCAAGCTGTAACCCACAT	1140	Db	8136	TGTATCTGAGGAGATATTATCTTAAATTGGTTGAAGGAGACCTACTCTGGAGAA	8195
Db	7056	CTGAACTTTAGTACTTACCTGCCCCCTCAGAGCTTCAAGCTGTAACCCACAT	7115	Qy	2221	CATACTGTAAATTCTGCTGAACTGAAACAAATCTCTGTPAAATAGCCTTAAC	2280
Qy	1141	GTCACCATAAATCACATGTTGAGTATGCTTCAAGCTCCCGTAAACAG	1200	Db	8196	CATACTGTAAATTCTGCTGAACTGAAACAAATCTGCTGAAATAGCCTTAAC	8255
Db	7116	GTCACCATAAATCACATGTTGAGTATGCTTCAAGCTCCCGTAAACAG	7175	Qy	2281	ATTATCAAGGAGCTAAGGAAACCTGAGATCTGAAAGGGATAACCTCTGCAAGGCTATCT	2340
Qy	1201	GCACTCTAAACAGGAGGATATTCAAAAGCTTAAAGCTTAAAGCTTAAAGCT	1260	Db	8256	ATTATCAAGGAGCTAAGGAAACCTGAGCTTAAAGCTTAAAGCTTAAAGCT	8315
Db	7176	GCACTCTAAACAGGAGGATATTCAAAAGCTTAAAGCTTAAAGCTTAAAGCT	7235	Qy	2341	GCTGPACAATATGTTGAAAGGTTGAGCTTCAAGAAACCGTTAACTTCTGCT	2400
Qy	1261	AAAGACCTGCTCCCTTGGCAAGGAACTCCCTTACGGCAACTCTGGCT	1320	Db	8316	GCTGPACAATATGTTGAAAGGTTGCTCAGAAAAGAAAACGGTAACTTCTGCT	8375
Db	7236	AAAGACCTGCTCCCTTGGCAAGGAACTCCCTTACGGCAACTCTGGCT	7295	Qy	2401	CAGAAAGACACAGAAACATAAGGAAACCCTGTCACACTGTTCAAC	2460
Qy	1321	ATTCGGAGGATCAATGTCGTTACAGTGTGTCGATGTCGTTGAGAA	1380	Db	8376	CAGAAAGACACAGAAACATAAGGAAACCCTGTCACACTGTTCAAC	8435
Db	72956	ATTCGGAGGATCAATGTCGTTACAGTGTGTCGATGTCGTTGAGAA	7355	Qy	2521	CATCNGGTCACCTGCTTCAACTCTGCTTCAACTCTGCTTCAACTCTGCT	2580
Qy	1381	GTGACTTCATGTCGTTACAGTGTGTCGATGTCGTTGAGAA	1440	Db	8496	CATCNGGTCACCTGCTTCAACTCTGCTTCAACTCTGCTTCAACTCTGCT	8555
Db	7356	GTGACTTCATGTCGTTACAGTGTGTCGATGTCGTTGAGAA	7415	Qy	2581	GTGCCCOCACTGCCAACCCAGAAATAGGGAGTGTGCTGAGATGGTCTG	2640
Qy	1441	CACTCAGAGCTCATCTTACATGCTTACAGTGTGTCGATGTCGTTGAGAA	1500	Db	8616	GTGCCCOCACTGCCAACCCAGAAATAGGGAGTGTGCTGAGATGGTCTG	8675
Db	7416	CACTCAGAGCTCATCTTACATGCTTACATGCTTACAGTGTGTCGTTGAGAA	7475.	Qy	2701	AAGGCCGCTGGAGGTAATGTCGTTGAGGGAGATGTCGTTGAGATGGTCTG	8615
Qy	1501	ATTCGGAGGAAAGGCTGCTGATAAGGGGCTGACCAATAGGTCAAGTCATT	1560	Db	7476	GTGCCCOCACTGCCAACCCAGAAATAGGGAGTGTGCTGAGATGGTCTG	8735
Db	7536	GTGACTTCATGTCGTTACAGTGTGTCGATGTCGTTGAGAA	7595	Qy	27641	GGATCGAACTTCTGGCTGAGCTGCAAGGGGGCCATACTCTGGCTTCCAGGAGG	2700
Qy	1561	GGATCGAAAGGGCTCAGAGGACCATGATGAGCTTCTGAGAAATTATGGCTG	1620	Db	7596	GGATCGAACTTCTGGCTGAGCTGCAAGGGGGCCATACTCTGGCTTCCAGGAGG	8735
Db	75366	GGATCGAAAGGGCTCAGAGGACCATGATGAGCTTCTGAGAAATTATGGCTG	7655	Qy	2761	CCAGGGAGGAGACTCTPATGATGACAGGACCATATAATCTCTGAGTCA	2820
Qy	1681	TTGAGGTTATCTCAACTCTPATGATGACAGGACCATATAATCTCTGAGTCA	1740	Db	8736	CCAGGGAGGAGACTCTPATGATGACAGGACCATATAATCTCTGAGTCA	8795
Db	7656	TTGAGGTTATCTCAACTCTPATGATGACAGGACCATATAATCTCTGAGTCA	7715				

		FEATURES	source	Location/Qualifiers
QY	2821	AGGTCTAGATCCGATCCTCGGAAGAGGGCTGAATTGTGAGGGTGTAGITGC		1..12047
Db	8796	AGGTCTAGATCCGATCCTCGGAAGAGGGCTGAATTGTGAGGGTGTAGITGC		/mo_type="synthetic construct"
QY	2881	AGGGTTGTAGCTGGAGACTCTGGAAAGAACCTTCAAGGTGAGGACT		/mo_type="unassigned DNA"
Db	8856	AGGGTTGTAGCTGGAGACTCTGGAAAGAACCTTCAAGGTGAGGACT		/db_xref="Human glandular kallikrein-TRE sequence"
		ORIGIN		
Qy	2941	GGCTCAGGTTGGAGGTAATGGATCCTGATTCTCAAACGGTCAGGACT		Query Match 100.0%; Score 3645; DB 6; Length 12047;
Db	8916	GGCTCAGGTTGGAGGTAATGGATCCTGATTCTCAAACGGTCAGGACT		Best Local Similarity 100.0%; Pred. No. 0;
Qy	3001	GAGAGTGGCCATGCTTGTGATCCTTCACATCACTCCACTGGATTCAGAAT		Matches 0; Mismatches 0; Indels 0; Gaps 0;
Db	8976	GAGAGTGGCCATGCTTGTGATCCTTCACATCACTCCACTGGATTCAGAAT		
Qy	3061	TACCTCTTCTAGTTCCACAGAGGGCCCTGGCATATACTGGCATATGGC		
Db	9036	TACCTCTTCTAGTTCCACAGAGGGCCCTGGCATATACTGGCATATGGC		
Qy	3121	CGGAGCCTGGGATCATCCACATCATCCACATGGGGCAGGGG		
Db	9096	CGGAGCCTGGGATCATCCACATCATCCACATGGGGCAGGGG		
Qy	3181	CGCCATGACGCTCATTTAGCCGACTATCCGCTCAGTCCTAAC		
Db	9156	CGCCATGACGCTCATTTAGCCGACTATCCGCTCAGTCCTAAC		
Qy	3241	CCATGGAGCTGGACGCTGGTCCCCTGGGATGTGGCTGTCAGGGCGGG		
Db	9216	CCATGGAGCTGGACGCTGGTCCCCTGGGATGTGGCTGTCAGGGCGGG		
Qy	3301	CCTGGTGCGATAAAGACGCTAGAACACAGGACTGAAAGGTGTAGAGAA		
Db	9276	CCTGGTGCGATAAAGACGCTAGAACACAGGACTGAAAGGTGTAGAGAA		
Qy	3360	CCATGGAGCTGGACGCTGGTCCCCTGGGATGTGGCTGTCAGGGCGGG		
Db	9335	CCATGGAGCTGGACGCTGGTCCCCTGGGATGTGGCTGTCAGGGCGGG		
Qy	3361	TGGCCATATSTCGTGTCCATGAAATCTAAGGACTTCTGGGTGGAGGCC		
Db	9336	TGGCCATATSTCGTGTCCATGAAATCTAAGGACTTCTGGGTGGAGGCC		
Qy	3421	GAACCTACGCTTGGCCCTGCACTGCTCCAACTGGAGCTCCAGATAAGCCA		
Db	9396	GAACCTACGCTTGGCCCTGCACTGCTCCAACTGGAGCTCCAGATAAGCCA		
Qy	3481	CTGTGCGAGGATCACTGACACATCTGTGAACTGGGACTPACCCAGGCC		
Db	9456	CTGTGCGAGGATCACTGACACATCTGTGAACTGGGACTPACCCAGGCC		
Qy	3541	ATGAAACCACTGGCTGGAGGAAGGGCTAACGGATGGACCTCTGTGGTCA		
Db	9516	ATGAAACCACTGGCTGGAGGAAGGGCTAACGGATGGACCTCTGTGGTCA		
Qy	3601	GCCCCAGGGCCATGAGGGTGGGGAGGGCTGGTGA		
Db	9576	GCCCCAGGGCCATGAGGGTGGGGAGGGCTGGTGA		
RESULT 3				
LOCUS	AX259951	AY259951		
DEFINITION		Sequence 36 from Patent WO0172341.		
VERSION		AX259951		
KEYWORDS		AX259951.1 GI:16509011		
SOURCE		synthetic construct		
ORGANISM		synthetic construct		
		artificial sequences.		
REFERENCE		1 Yu, D.-C., Chen, Y. and Henderson, D.R.		
AUTHORS		Methods of treating neoplasia with combinations of target		
TITLE		cell-specific adenovirus, chemotherapy and radiation		
JOURNAL		Patent: WO 0172341-A 36 04-OCT-2001;		
		Calydon, Inc. (US)		
		901 GACAAGGAGGCTCCAGTGGAGGATTCTCTGTGTTCTCCAGTGTGTCATGGAAA		



Qy	3121	CGGAGGCCCTGGGCATCATCCACTCATCATTAGCATTCGGTATGGCGAGGCCGG	31.80
Db	9096	CGGAGGCCCTGGGCATCATCCACTCATCATTAGCATTCGGTATGGCGAGGCCGG	91.55
Qy	3181	CCCATGACGTCACTGAGCTGGACTATCCCTGCAGCGCCCTTCGGTACGTCACAA	32.40
Db	9156	CCCATGACGTCACTGAGCTGGACTATCCCTGCAGCGCCCTTCGGTACGTCACAA	92.15
Qy	3241	CCATGGAGCTGGACCTGGCCTGGAGATGTCGGCTGGCGAGGCCGG	33.00
Db	9216	CCATGGAGCTGGACCTGGCCTGGAGATGTCGGCTGGCGAGGCCGG	92.75
Qy	3301	CCTGGGTTCCGATAAAGATCTAGAACCAAGAACGACTAAAGTGTGAGAGA	33.60
Db	9276	CCTGGGTTCCGATAAAGATCTAGAACCAAGAACGACTAAAGTGTGAGAGA	93.35
Qy	3361	TGGCCATATGTCGTCATGAAACTCAGGACTCTGGTGGAGGGACAGAGCT	34.20
Db	9336	TGGCCATATGTCGTCATGAAACTCAGGACTCTGGTGGAGGGACAGAGCT	93.95
Qy	3421	GAACCTACGGGTTGGCCAGTCAGTCCTCCAAAGTAGTGTGAGTCATAACGGGA	34.80
Db	9396	GAACCTACGGGTTGGCCAGTCAGTCCTCCAAAGTAGTGTGAGTCATAACGGGA	94.55
Qy	3481	CTGTGCCAACGATGCTTCACTGTGACATCTTCAAGGACTTCAAGGACCTG	35.40
Db	9456	CTGTGCCAACGATGCTTCACTGTGACATCTTCAAGGACTTCAAGGACCTG	95.15
Qy	3541	ATGAAACACATGGTGCTGGAGAAAGGGCATGGACTCCCTGTGTCAGA	36.00
Db	9516	ATGAAACACATGGTGCTGGAGAAAGGGCATGGACTCCCTGTGTCAGA	95.75
Qy	3601	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGGACTGGC 3.645	
Db	9576	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGGACTGGC 9620	
RESULT 4			
Qy	AX262356	AX262356 Sequence 11 from Patent WO0173093.	12047 bp DNA
Db	AX262356	AX262356 Sequence 11 from Patent WO0173093.	12047 bp DNA
DEFINITION	Sequence 11 from Patent WO0173093.		linear
ACCESSION	AX262356		PAT 26-OCT-2001
VERSION	AX262356.1		
KEYWORDS	GI:16511284		
SOURCE	synthetic construct		
ORGANISM	synthetic construct		
FEATURES	artificial sequences.		
REFERENCE	1		
AUTHORS	Yu, D.C., Liu, Y. and Henderson, D.R.		
TITLE	Cell-specific adenovirus vectors comprising an internal ribosome entry site		
JOURNAL	Patent: WO 0173093-A 11 04-OCT-2001; Calydon, Inc. (US)		
FEATURES	Location/Qualifiers		
source	1..12047		
ORGANISM	/organism="synthetic construct"		
	/mol_type="unassigned DNA"		
	/db_xref="taxon:32610"		
	/note="Human glandular kallikrein-TRE sequence"		
ORIGIN			
Query Match Score	3645 : DB 6 : Length 12047;		
Best Local Similarity	100.0%		
Matches	3645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	5946 GGCCCTCAATAATGTAAGAGTGTAAATGTTGAGACTA 60		
Db	5946 GGCCCTCAATAATGTAAGAGTGTAAATGTTGAGACTA 6035		
Qy	1 CTGTCGGAGATTTCTGAGTCTAGTGTGGATAAGAACCTGGACTTGGCTT 120		
Db	61 CTGTCGGAGATTTCTGAGTCTAGTGTGGATAAGAACCTGGACTTGGCTT 6095		
Qy	61 CTGTCGGAGATTTCTGAGTCTAGTGTGGATAAGAACCTGGACTTGGCTT 7175		
Db	6106 CTGTCGGAGATTTCTGAGTCTAGTGTGGATAAGAACCTGGACTTGGCTT 7116		



9336	TGGCCATATGCGCTGCCATTGAAATTCAGGACTTCTGGTGAGGGCACAGGGCT	9395
Db	93421 GAACTACGGTTGCCAGTCCACTGAGTCTCCAGATACAGGCA	3480
Y	93421 GAACTACGGTTGCCAGTCCACTGAGTCTCCAGATACAGGCA	3480
b	93421 GAACTACGGTTGCCAGTCCACTGAGTCTCCAGATACAGGCA	9455
93481 CTGTGCCAGCATGGTCACTCTGTACACAATCTGTACACAATCTGTACACA	3540	
Y	9456 CTGTGCCAGCATGGTCACTCTGTACACAATCTGTACACAATCTGTACACA	9515
b	9456 CTGTGCCAGCATGGTCACTCTGTACACAATCTGTACACAATCTGTACACA	9515
3541 ATGAAACCACTGGTGTGGAGGCTCTGTGTGAGA	3600	
Y	9516 ATGAAACCACTGGTGTGGAGGCTCTGTGTGAGA	9575
b	9516 ATGAAACCACTGGTGTGGAGGCTCTGTGTGAGA	9575
3601 GCCCCAGGGGCCATAGCGGTGGGGAGGGGCTGTGAGCTGC	3645	
Y	9576 GCCCCAGGGGCCATAGCGGTGGGGAGGGGCTGTGAGCTGC	9620
b	9576 GCCCCAGGGGCCATAGCGGTGGGGAGGGGCTGTGAGCTGC	9620
RESULT 5		
LOCUS	BD195482	12047 bp
DEFINITION	Adenovirus vectors containing heterologous transcription regulatory elements and methods of using same.	DNA
ACCESSION	BD195482	linear
KEYWORDS	PR-17-JUL-2003	PAT
SOURCE	GR:33005252	transcription regulatory
ORGANISM	JP 2002514074-A/3.	
REFERENCE	unidentified	
AUTHORS	1 (bases 1 to 12047)	
TITLE	Henderison, D.R., Yu, D.C. and Lamparski, H.G.	
KEYWORDS	Adenovirus vectors containing heterologous transcription regulatory elements and methods of using same	
JOURNAL	unidentified	
COMMENT	Patent: JP 2002514074-A 3 14-MAY-2002 ; CALDON INC	
OS	Unidentified	
PN	JP 2002514074 A/3	
PD	14-MAY-2002	
PF	03-MAR-1998	
PR	JP 1998538674	
PR	03-MAR-1997	
04-AUG-1997 US 60/039762, 03-MAR-1997 US 60/039763 PR DANIEL R HENDERSON, DE CHAO YU HENRY G LAMPARSKI PC C12N15/86, C12N5/10, A61K48/00, A61K47/48, C12N11/08 CC Strandedness: Single;		
CC	Topology: Linear;	
CC	Adenovirus vectors containing heterologous transcription CC regulatory elements and methods of using same	
FH	Key Location/Qualifiers	
FT	source 1 . 12047	
FT	/organism= 'Unidentified' . /organism= 'Unidentified' . Location/Qualifiers	
FEATURES	1 . 12047	
source	/organism= 'Unidentified' . /organism= "genomic DNA" . /db_xref="taxon:326544"	
ORIGIN		
Query Match	100.0%	
Best Local Similarity	100.0%	
Matches 3645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Dy	1 GGCCCTCATATAATTGTPAAGTGTAAATGTTGAGCTTGGCTCAAGATGAAATGTTGAGAACTA	60
Db	5976 GGCCCTCATATAATTGTPAAGTGTAAATGTTGAGCTTGGCTCAAGATGAAATGTTGAGAACTA	6035
Dy	61 CTGTCCTAACAGAGATTTCCTGAGTCTAGTGTGGATAATGAACTGGCTTAAGCTGGCTTAAGCTGGCT	120
Db	6036 CTGTCCTAACAGAGATTTCCTGAGTCTAGTGTGGATAATGAACTGGCTTAAGCTGGCTTAAGCTGGCT	6095
Dy	121 CTTCAAGCTTAGAATCAGGATCTGGCTTAAGCTGGCTTAAGCTGGCTTAAGCTGGCTTAAGCTGGCT	180

Qy	1261	AAAGACCTGGCCCTTGGCRAAGGAGAATCCTTTACCGCACACTCCTTCAGGGGT	1320	Qy	2341	GCTGTACAATAATGCTGAAAAGATGCTCCAGAAAAGAAACGGTTATTATGCCCTTGCT	2400
Db	7236	AAAGACCTGGCCCTTGGCRAAGGAGAATCCTTCAGGGGT	7295	Db	8316	GCTGTACAATAATGCTGAAAAGATGCTCCAGAAAAGAAACGGTTATTATGCCCTTGCT	8375
Qy	1321	ATTGTCGAGATAAAATGCTCATCTGTCGTSAGAACCCACACATGTCGGCTGGACA	1380	Qy	2401	CAGAAAGCACACAGAAACATAAGAACCATGGAAGAACCTCCATCACTGTCACCC	2460
Db	7296	ATTGTCGAGATAAAATGCTCATCTGTCGTSAGAACCCACACATGTCGGCTGGACA	7355	Db	8376	CAGAAAGCACACAGAAACATAAGAACCATGGAAGAACCTCCATCACTGTCACCC	8435
Qy	1381	GTGACTCTATGTCGTCATTCATTGTCAGTCTAGAAGTAGTATAGGATGGCTTG	1440	Qy	2461	AGAGCCTTCACACTCTGTCAGGAGCAGCTTAACTCCATCATAGTCACCA	2520
Db	7356	GTGACTCTATGTCGTCATTCATTGTCAGTCTAGAAGTAGTATAGGATGGCTTG	7415	Db	8436	AGAGCCTTCACACTCTGTCAGGAGCAGCTTAACTCCATCATAGTCACCA	8495
Qy	1441	CACTCACAGATCTCATCTAACTCCTCACAACTGCTCAAGGGGGCACTAGGCC	1500	Qy	2521	CATCTGCCTTACCGTCCTAACAGAATTCTAGTCAGTCCAGATGGCTTGCA	2580
Db	7416	CACTCACAGATCTCATCTAACTCCTCACAACTGCTCAAGGGGGCACTAGGCC	7475	Db	8496	CATCTGCCTTACCGTCCTAACAGAATTCTAGTCAGTCCAGTTCAGTCAGTGGCA	8555
Qy	1501	ATTGACAGAGAAAAGGCTCCAGAGGACATGGTGGATAAGGGGGTACATTC	1560	Qy	2581	GTGCCCAACTGCAAACCCAGAAATAGGAGTGTCAAACTGGGACATGGTGG	2640
Db	7476	ATTGACAGAGAAAAGGCTCCAGAGGACATGGTGGATAAGGGGGTACATTC	7535	Db	8556	GTGCCCAACTGCAAACCCAGAAATAGGAGTGTCAAACTGGGACATGGTGG	8615
Qy	1561	GGATGCAAGGGGCTCCAGAGGACATGGTGGATAAGGGGGTACATTC	1620	Qy	2641	GGATCGAAACTCTGGCTTGAAGGGGGCCATACTCCCTGGTICGAGAGGAGG	2700
Db	7536	GGATGCAAGGGGCTCCAGAGGACATGGTGGATAAGGGGGTACATTC	7595	Db	8616	GGATCGAAACTCTGGCTTGAAGGGGGCATACTCCCTGGTICGAGAGGAGG	8675
Qy	1621	ATGTCCTGCCCCGAAAGGGGATGCACTTCCCTGACCCCTATCTAGATCTGACT	1680	Qy	2701	AAGAGCTGGGGGTGATGCTCTGGGGGAGGAATGCTGTTGAACTTAATCC	2760
Db	7596	ATGTCCTGCCCCGAAAGGGGATGCACTTCCCTGACCCCTATCTAGATCTGACT	7655	Db	8676	AAGAGCTGGGGGTGATGCTCTGGGGGAGGAATGCTGTTGAACTTAATCC	8735
Qy	1681	TGAGGTATCTGACACTCTCATCTGATGATGACCTGATATCTCTGTC	1740	Qy	2761	CCAAGGGAGGAGACTGTAAGTCAGCTTCCAGGATCTAGCTGAGGAAATGGCTGAG	2820
Db	7656	TGAGGTATCTGACACTCTCATCTGATGACCTGATATCTCTGTC	7715	Db	8736	CCAAGGGAGGAGACTCTGATGCTCTGGGGGAACTGCTGTTGAACTTAATCC	8795
Qy	1741	TCTCCCTCTCTGACTGCTACTGCCACTTCCAGCTCATCTGAGCAGGTG	1800	Qy	2821	AGGTCTAAGATCCGATTCGGTAACTGGAGGTAACTCTGTTGAGGGTGTAGTGC	2880
Db	7716	TCTCCCTCTCTGACTGCTACTGCCACTTCCAGCTCATCTGAGCAGGTG	7775	Db	8796	AGGTCTAAGATCCGATTCGGTAACTGGAGGTAACTCTGTTGAGGGTGTAGTGC	8855
Qy	1801	TAGCCACGTTGACCTTAACCTTTCGAGGAACTTAACTGGTACAGGGAGAAA	1860	Qy	2881	AGGGTTGGTAGCTGAGCTTCTGGGAAAGGGGCTGAAATGTCAGGAGCTT	2940
Db	7776	TAGCCACGTTGACCTTAACCTTTCGAGGAACTTAACTGGTACAGGGAGAAA	7835	Db	8856	AGGGTTGGTAGCTGAGCTTCTGGGAAAGGGGCTGAAATGTCAGGAGCTT	8915
Qy	1861	AAAAAAAGAAACTCTGAAAGGAGTCACTTACCGACTTAACTGGTAACTCTG	1920	Qy	2941	GGCTCCAGGGTTGGTAGGAACTCTGCTGAGGTTAACTCTGTTGAGGAGCT	3000
Db	7836	AAAAAAAGAACTCTGAAAGGAGTCACTTACCGACTTAACTGGTAACTCTG	7895	Db	8916	GGCTCAGGGTTGGTAGGAACTCTGCTGAGGTTAACTCTGTTGAGGAGCT	8975
Qy	1921	CCAGTTTGTGCTGGTAGAAACTCATGAGACTCTCTGGTAGGGCAAGGTTGAG	1980	Qy	3001	GAGASTTGCCATGCTTCACTCTGCTGAGGTTAACTCTGCTGAGGAGCT	3060
Db	7896	CCAGTTTGTGCTGGTAGAAACTCATGAGACTCTCTGGTAGGGCAAGGTTGAG	7955	Db	8976	GAGATGCCCCATCTGCTGAGGTTAACTCTGCTGAGGAGCT	9035
Qy	1981	CCACAGCTGAGGCGAGCATGACTCTGTCACATTGTCACCTTGGCTGCCATT	2040	Qy	3061	TACTCTCTAGTTCCACAGAGTGGCTGGCCAGTAACTCTGCAATGTCAGCTG	3120
Db	7956	CCACAGCTGAGGCGAGCATGACTCTGTCACATTGTCACCTTGGCTGCCATT	8015	Db	9036	TACTCTCTAGTTCCACAGAGTGGCTGGCCAGTAACTCTGCAATGTCAGCTG	9095
Qy	2041	CATATGGATGATGAGGAGTCACTGAGACTCTGGTAGGGCAAGGGTTGAG	2100	Qy	3121	CCGAGGCTGGGGTATCATCCACTCATCTGCAATCTGCTGAGGAGCT	3180
Db	8016	CATATGGATGATGAGGAGTCACTGAGACTCTGGTAGGGCAAGGGTTGAG	8075	Db	9096	CCGAGGCTGGGGTATCATCCACTCATCTGCAATCTGCTGAGGAGCT	9155
Qy	2101	CAACCTGGTTGAGAACTCTCATCTPATAAGGCTTACATGCAAACTGTCCAGTC	2160	Qy	3181	CCGATGAGCTCATGAGCTGCTGAGACTATCCCTGGGGCCCTGAGGAGCT	3240
Db	8076	CAACCTGGTTGAGAACTCTCATCTPATAAGGCTTACATGCAAACTGTCCAGTC	8135	Db	9156	CCGATGAGCTCATGAGCTGCTGAGACTATCCCTGGGGCCCTGAGGAGCT	9215
Qy	2161	TGTACTGAGGAGTATTATCTTAACTGGTTGAGGAGCTTCTGGAGGAA	2220	Qy	3241	CCATGGAGCTGTTGAGCTGCTGAGCTGCTGAGGAGCTTCTGGAGGAGCT	3300
Db	8136	TGTACTGAGGAGTATTATCTTAACTGGTTGAGGAGCTTCTGGAGGAA	8195	Db	9216	CCATGGAGCTGTTGAGCTGCTGAGCTGCTGAGGAGCTTCTGGAGGAGCT	9275
Qy	2221	CATATTGTATTATTGTCCTGAACTAACTCTGCTTAAATGAGCTTAACTT	2280	Qy	3301	CCTCTGTCGATAAAATCTGCTGAACTAACTCTGCTTAAATGAGCTTAACTT	3360
Db	8196	CATATTGTATTATTGTCCTGAACTAACTCTGCTTAAATGAGCTTAACTT	8255	Db	9276	CCTCTGTCGATAAAATCTGCTGAACTAACTCTGCTTAAATGAGCTTAACTT	9335
Qy	2281	ATTATCTAGGCACTAAGGAAACCTGATCTGGAGGGGATACATCTGGAGGCT	2340	Qy	3361	TGGCCATATGTCGCTGAACTAACTCTGCTTAAATGAGCTTAACTCTGCTT	3420
Db	8256	ATTATCTAGGCACTAAGGAAACCTGATCTGGAGGGGATACATCTGGAGGCT	8315	Db	9336	TGGCCATATGTCGCTGAACTAACTCTGCTTAAATGAGCTTAACTCTGCTT	9395
Qy	3421	GAACCTACGGCACTAAGGAAACCTGATCTGGAGGGGATACATCTGGAGGCT	3480	Qy			

Qy	9396	GAACCTTACGGGTTTGCCCACTGCCACTGTCTCCAAAGTAGTCAGTCAGGAGCA 9455	181	GTTGGCCTCCGGAGCACATATTGACATGTTGCGACTGTGATTTGGTTGGTATTGGC 240
Db	3481	CTGTGCAGATCAGTCACTCTGTACCAACATCTGTAAAGGGACTAACCGAACCTG 3540	6156	GTTGGCCTCCGGAGCACATATTGACATGTTGCGACTGTGATTTGGTTGGTATTGGC 6215
Db	9456	CTGTGCAGGATCAGTTCACCTAACCTAACATCTGTAAAGGGACTAACCGAACCTG 9515	241	TCTGTAATCCTAATGTCGTCCTGAGGCATATTGAAATCTGTGTTCAAGAAATTCCT 6216
Qy	3541	ATGAAACRACATGGTGTGGAGGGGATGGAATCCCTGTGTGTCAGA 3600	301	ATTATCTTGATGGACATCCAGTCAGCTGCTGCTGCTGAGTCAGTCTGAGTCTG 6216
Db	9516	ATGAAACRACATGGTGTGGAGGGGATGGAATCCCTGTGTGTCAGA 9575	6276	ATTATCTTGATGGACATCCAGTCAGCTGCTGCTGAGTCAGTCTGAGTCTG 6335
Qy	3601	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGTGGACTGS 3645	361	CAGTGAACCGGTCTGGGATTCACACTCATACAGTGGCTATCTTGTCCTAGTT 6336
Db	9576	GCCCCAGGGGCCATGACGGTGGGGAGGGCTGTGGACTGGC 9620	6336	CAGTGAACCGGTCTGGGATTCACACTCATACAGTGGCTATCTTGTCCTAGTT 6395
Qy	RESULT 6		421	CAACCAAACACGGATAAACATGAAACCTTCCCACTTCCCTAGTCGAATGTTAA 480
BD224259	LOCUS	BD224259 12047 bp DNA linear PAT 17-JUL-2003	6336	CAACCAAACACGGATAAACATGAAACCTTCCCACTTCCCTAGTCGAATGTTAA 6455
DEFINITION	Adenovirus vectors containing cell status-specific response elements and methods of use thereof.		481	ACCTAGATTCTGTATAATGGTTCTATGAAATTTCAGCCCTGATCCAACCTTTACAT 540
ACCESSION			6456	ACCTAGATTCTGTATAATGGTTCTATGAAATTTCAGCCCTGATCCAACCTTTACAT 6515
VERSION	BD224259.1	GI:33034029	Qy	541 TCCTCTTACGGTTATTAATGGTTCTATGAAATTTCAGCCCTGATCCAACCTTTACAT 600
KEYWORDS	BD224259.1	JP 2002525063-A/5	DB	6516 TCCTCTTACGGTTATTAATGGTTCTATGAAATTTCAGCCCTGATCCAACCTTTACAT 6575
SOURCE	Homo sapiens (human)		Qy	601 CTACCTATATGGTAAATCTGGCTTGCAGTTCTAGTCGATTAACATCCGTATTTA 660
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eureleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 12047)		DB	6576 CTACCCATTATGGTAAATCTGGCTTGCAGTTCTAGTCGATTAACATCCGTATTTA 6635
REFERENCE	Yu, D.C. and Henderson, D.R.		Qy	661 CATTCTTACTCTGACATCTGATCATATTGAGTTCAAGGAGTCAGGTTCTCAAGA 720
AUTHORS	Adenovirus vectors containing cell status-specific response elements and methods of use thereof		DB	6636 CATTCTTACTCTGACATCTGATCATATTGAGTTCAAGGAGTCAGGTTCTCAAGA 6695
TITLE	Patent: JP 2002525063-A 5 13-AUG-2002;		Qy	721 TGGCCCTTACTCTGACATCTGATCATATTGAGTTCAAGGAGTCAGGTTCTCAAGA 780
JOURNAL	CALYDON INC		DB	6696 TGGCCCTTACTCTGACATCTGATCATATTGAGTTCAAGGAGTCAGGTTCTCAAGA 6755
COMMENT	OS Homo sapiens (human)		Qy	781 TCAGTGAATTGAGATTGAACTTCAGGTTCTGGCTTGCAGTTCTGGCTATGG 840
PN	JP 2002525063-A/5		DB	6756 TCAGTGAATTGAGATTGAACTTCAGGTTCTGGCTTGCAGTTCTGGCTATGG 6815
PD	13-AUG-2002		Qy	841 TTATATACGAAAGAAATAGAGATCAAATCTAGAAAGGTTGCAATGGGCAA 900
PF	10-SEP-1999	JP 20000570347	DB	6816 TTATATACGAAAGAAATAGAGATCAAATCTAGAAAGGTTGCAATGGGCAA 6875
PR	10-SEP-1998	US 60/099791, 09-SEP-1999 US DE CHAO YU, DANIEL R HENDERSON	Qy	901 GACAGGAGACCTCCAGTGAGATGAACTTCAGGTTCTGGCTATGGCTATGG 960
PC	C12N15/09, A61K48/00, A61P35/00, C12N1/15, C12N1/19, C12N1/21, C12N5/ 10, C12N7/02//A61K35/76, C12N15/00, C12N5/00		DB	6876 GACAGGAGACCTCCAGTGAGATGAACTTCAGGTTCTGGCTATGGCTATGG 6935
CC	Adenovirus vectors containing cell status-specific response elements and methods of use thereof		Qy	961 CGATGATCTCTCATACATGATGTTGATAATTCAGTCAAGGAAATCGGAAC 1020
CC	methods of use thereof		DB	6936 CGATGATCTCTCATACATGATGTTGATAATTCAGGAAATCGGAAC 6995
Key	Location/Qualifiers		Qy	1081 CTGAACTTACATCTGATGTTGATAATTCAGTCAAGGAAATCGGAAC 1140
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Qy	1	GGCCCTCATATATTGTTAGAGTGTAAATGTTGCTCCAAAGATGGAAAATGTTGAGAACA 60	5976	GGCCCTCATATATTGTTAGAGTGTAAATGTTGCTCCAAAGATGGAAAATGTTGAGAACA 6035
Db	61	CTGTGCCAGAGATTTCTGTAGTTCTAGTGTGGAAATATAGAACCTGGCTTGGAGCTGGTGG 180	6036	CTGTGCCAGAGATTTCTGTAGTTCTAGTGTGGAAATATAGAACCTGGCTTGGAGCTGGTGG 6095
Db	6036	CTGTGCCAGAGATTTCTGTAGTTCTAGTGTGGAAATATAGAACCTGGCTTGGAGCTGGTGG 6155	6095	CTTCAGCCCTAGAATCAGGAGTATGGCTGAAGCTGGCTTGGAGCTGGTGGAGCTGGTGG 6155

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Qy	1321	ATTGTGAGGATCAAATGTTGATGTTGATGTTGAGAACCATGGAATAATTGCTCCAACTGTCACGGTT	1380	Qy	2401	CAGAAGACACAGAACATAGAACATGAACTGAACTGAAATTGCTCCAACTGTCACGGTT	2460
Db	7296	ATTGTGAGGATCAAATGTTGATGTTGATGTTGAGAACCATGGAATAATTGCTCCAACTGTCACGGTT	7355	Db	8376	CAGAAGACACAGAACATAGAACATGAACTGAACTGAAATTGCTCCAACTGTCACGGTT	8435
Qy	1381	GTGACTCTATGTTGTTAATGGCATGGCTTAAGAAGTAACTGGCATGGCTTCGAGGTT	1440	Qy	2461	AGAGCTTCCACTCTGTCAGGACAGTCTTAACTATCCATTAAGTGTGTCATACCTGTTACCA	2520
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Qy	1501	ATTGTGACAGGGAAAGCACTGGATAAGAAGGGGTGACCAATAGGTGAGAGTCATCT	1560	Qy	2581	GTGCCCCACTGCAACCCACAAATAGGGAGTGTCTAGAATTCCAGGGACATGGTGG	2640
Db	7476	ATTGTGACAGGGAAAGCACTGGATAAGAAGGGGTGACCAATAGGTGAGAGTCATCT	7535	Db	8556	GTGCCCCACTGCAACCCACAAATAGGGAGTGTCTAGAATTCCAGGGACATGGTGG	8615
Qy	1561	GGATGCAAGGGGCTCOAGAGGACCATGTTAGACATTGCTGGCAGANATTATGGCTG	1620	Qy	2641	GGATGCAACTCTGGCTTGTGGCTTGTGGAGAGGGGCCATACTCTGGTCCAGAGGAGG	2700
Db	7536	GGATGCAAGGGGCTCOAGAGGACCATGTTAGACATTGCTGGCAGAATAATTGGCTG	7595	Db	8616	GGATGCAACTCTGGCTTGTGGAGAGGGGCCATACTCTGGTCCAGAGGGGCA	8675
Qy	1621	ATGTCCTCTGCCCGGAAAGGGGGATGCACTTCCCTGACCCCCTATCAGATCTGACT	1680	Qy	2701	AAGAGGTGGAGGTGAGGTGAGATGCTGGTTCTGAACTGGGAGGATGTTGAGTCTGAACTCTAAATC	2760
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Qy	1681	TGAGGTTTATTCACACTTCTATGATAACCACTGATAACCACTGATAACCACTGATA	1740	Qy	2761	CCAAGGGAGGAGACTGCTAGTCAAGGCTCCAGCTGGAGGAAATGCTGAGCTGAGTCTGAG	2820
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Qy	1861	AAAAAAAGAACTCTGAAAGAGCTGACATTTCGACTGCAAAACATAACTAACCTG	1920	Qy	2941	GGCTCAAGGGTTTGTGGAGGTTAGGAAATCTGCAATTCTGAACTGAGGAACT	3000
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Qy	1921	CCAGTTTGTGCTGAGTCAACTGAACTCATGAACTCTGGTCAAGGGCAAAGAATT	1980	Qy	3001	GAGAGTGGCTTCACTCTCACTCTACTCTGAGGTTAATCTGAGGTTAATACC	3060
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Qy	1981	CCACAGCTTAAGGGCAGGATGACTTGTGTCACTTGTGTCACCTGGCCCAAATT	2040	Qy	3061	TACTCTCTGAGTTCACAGAGTGGCTGCGGAGTATACTGCGCATCTGCGCATCTGCG	3120
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Qy	2161	TGTATCTGACGGAGATAATTATCTTATAATTGGTCAAAAGCAGCTCTGGAGAA	2220	Qy	3241	CCATGGGCTGGCTGGCTCCGGGATGCTGGCTGCTGGCTGCTGGCTGCTGG	3300
Db	8116	TGTATCTGACGGAGATAATTATCTTATAATTGGTCAAAAGCAGCTCTGGAGAA	2220	Db	9216	CCATGGGCTGGCTGGCTCCGGGATGCTGGCTGCTGGCTGCTGGCTGCTGG	9275
Qy	2221	CATATTGTTTATTGTCCTGACAGTAACATCTGCTTAATAGAGTTACTT	2280	Qy	3301	CCGGTGTCCGATAAGATCTGGCTTCCCAAGTGTGACTCTGGCTGCTGGCTGCTGG	3360
Db	8196	CATATTGTTTATTGTCCTGACAGTAACCTGAACTCATCTGCTTAATAGAGTTACTT	8315	Db	9276	CCGGTGTCCGATAAGATCTGGCTTCCCAAGTGTGACTCTGGCTGCTGGCTGCTGG	9335
Qy	2281	ATTATCPAGGGTGTGAGTAACTGAACTCATCTGAACTCATCTGCTTAATAGAGTTACTT	2340	Qy	3361	TGGCCATATGTCCTGTCATGAATCTCAAGGACTCTCTGGCTGCTGGCTGCTGG	3420
Db	8256	ATTATCPAGGGTGTGAGTAACTGAACTCATCTGCTTAATAGAGTTACTT	8315	Db	9336	TGGCCATATGTCCTGTCATGAATCTCAAGGACTCTCTGGCTGCTGGCTGCTGG	9395
Qy	2341	GCTGTACAAATATGCTGTAAGAAGATGGTCAAGAAAAGAAACGGTTATTATGCC	2400	Qy	3421	GAACTTAGGTTTGTGCTCCAGTCACTGTCATGTCAGTCACTGGCTGCTGGCTGCTGG	3480
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QY	3481	CTGTGCCAGATCAGCTTACATCTGTACCAACATCTGTAAAGGACTACCCAGGACCTG	3540	Qy	241	TCTGAATCCTAATGTCCTGGCTCTGGGATCTAGAAATCTGGTCAAATCTGATTCT	300	
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RESULT	7			Qy	421	CAACCAAACACGGATAAACTTAACTAGAAACCTTCCACTTCCAGTGTCAAATGTTAA	480	
LOCUS	AF113169	AF113169	12282 bp DNA linear	PRI 05-MAY-1999	Db	6631	CAACCAAACACGGATAAACTTAACTAGAAACCTTCCACTTCCAGTGTCAAATGTTAA	6690
DEFINITION	Homo sapiens glandular kallikrein enhancer region, complete sequence.			Qy	481	ACCTTGGATTCTTGTTAATGGTTCAATGAAATTTGCGCATCCAACTTACAT	540	
ACCESSION		AP113169		Db	6691	ACCTTGGATTCTTGTTAATGGTTCAATGAAATTTGCGCATCCAACTTACAT	6750	
VERSTON		AF113169.1	GI:4164598	Qy	541	TCCCTCPACCGTTATCTACACCCACCTTAAATGCAATCCAAATATCCCTGGATT	600	
SOURCE				Db	6751	TCCCTCPACCGTTATCTACACCCACCTTAAATGCAATCCAAATATCCCTGGATT	6810	
ORGANISM	Homo sapiens			Qy	601	CTTACCTATATGGTATCTGGCTTGGCAAGTTCTAGTCATTAACATCCGATTAA	660	
Eukaryota; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				Db	6811	CTTACCTATATGGTATCTGGCTTGGCAAGTTCTAGTCATTAACATCCGATTAA	6870	
REFERENCE		1 (bases 1 to 12282)		Qy	661	CATTCTTTACTTTAATGGAATAAGAGTCCCTGCAAGTTCAGGATCTCGAGA	720	
AUTHORS	Yu, D.-C., Sakamoto, G.T. and Henderson, D.R.			Db	6871	CATTCTTTACTTTAATGGAATAAGAGTCCCTGCAAGTTCAGGATCTCGAGA	6930	
TITLE	Identification of the transcriptional regulatory sequences of human kallikrein 2 and their use in the construction of calydon virus 764, an attenuated replication competent adenovirus for prostate cancer therapy			Qy	721	TGGCCCTTACTCTGACATCAATTGAGATTCAGGAGTCAGAATCATCCTAGGT	780	
JOURNAL	Cancer Res. 59 (7), 1498-1504 (1999)			Db	6931	TGGCCCTTACTCTGACATCAATTGAGATTCAGGAGTCAGAATCATCCTAGGT	6990	
MEDLINE	10197620			Qy	781	TCAGTGAATTGGTGTGTTACCCCTCATATAACTCATGAAAGCTGTTATGCTCATGGCTATGG	840	
PUBMED	(bases 1 to 12282)			Db	6991	TCAGTGAATTGGTGTGTTACCCCTCATATAACTCATGAAAGCTGTTATGCTCATGGCTATGG	7050	
AUTHORS	Yu, D.C., Sakamoto, G.T. and Henderson, D.R.			Qy	841	TTTTACAGCAAAGAATAGAGATGAAAGAGTTCAGGAAAGAGTTCAGTGGGCAA	900	
TITLE	Direct Submission			Db	7051	TTTTACAGCAAAGAATAGAGATGAAAGAGTTCAGGAAAGAGTTCAGTGGGCAA	7110	
JOURNAL	(14-DEC-1998) Research, Calydon Inc., 13224 Chesapeake Terrace, Sunnyvale, CA 94039, USA			Qy	901	GACAAGAGAGGTCTCAAGTGGAGAATCTCCAGTGGGTCATGGAAA	960	
FEATURES	Location/Qualifiers			Db	7111	GACAAGAGAGGTCTCAAGTGGAGAATCTCCAGTGGGTCATGGTAAATGTT	7170	
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Query Match	100.0%	Score 3645;	DB 9;	Length 12282;	Qy	1271	CTTCAGCCTAGATCAGGAGTATGGCTGAACTGGCTGAAATGGTGAACCTA	6270
Best Local Similarity	100.0%	Pred. No. 0;	Mismatches 0;	Indels 0;	Gaps 0;			
Matches 3645;	Conservative							
Qy	1	GGCCCTTAAATTGGTAAAGGTAAATGGTCAAAAGTGGAAATGGTTGAGAACTA	60					
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Qy	121	CTTCAGCCTAGATCAGGAGTATGGCTGAACTGGCTGAAATGGCTGAAATGG	180					
Db	6331	CTTCAGCCTAGATCAGGAGTATGGCTGAAATGGCTGAAATGGCTGAAATGG	6390					
Qy	181	CTTGGGCTTCCGGAGAACATCTTACGGCAACTCTCCCTGAAGTCAAGGTT	240					
Db	6391	CTTGGGCTTCCGGAGAACATCTTACGGCAACTCTCCCTGAAGTCAAGGTT	6450					







Db 39303 CTGTGCCAGCATCAGCTCATCTGACACATCTGAAAGGGACTACCAGG 39356

RESULT 9  
 AC027602/c  
 LOCUS Homo sapiens chromosome 19 clone RP11-795B6 map 19, WORKING DRAFT  
 DEFINITION SEQUENCE, 12 unordered pieces.

AC027602  
 AC027602.4 GI:11178143 HTG; HTGS\_PHASE1; HTGS\_DRAFT.

KEYWORDS SOURCE  
 ORGANISM  
 REFERENCE AUTHORS  
 TITLE JOURNAL  
 COMMENT

AC027602  
 AC027602.4 GI:11178143 HTG; HTGS\_PHASE1; HTGS\_DRAFT.  
 Homo sapiens  
 Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarzhini; Hominidae; Homo.  
 1 (bases 1 to 217346)  
 Birren,B., Linton,L., Nusbaum,C. and Lander,E.  
 Unpublished  
 2 (bases 1 to 217346)  
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,  
 Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F.,  
 Boguslavskiy,L., Boukhalter,B., Brown,A., Burkett,G.,  
 Campopiano,A., Castle,A., Choepel,Y., Colangelo,M., Collins,S.,  
 Collymore,A., Cooke,P., Dearlano,K., Dewar,K., Diaz,J.S.,  
 Dodge,S., Domino,M., Doyle,M., Ferreira,P., FitzHugh,W., Gage,D.,  
 Galagan,J., Gardyn,S., Ginde,S., Goyetz,M., Graham,L.,  
 Grand-Pierre,N., Grant,G., Hagos,B., Heaford,A., Horton,L.,  
 Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A.,  
 Klein,J., LaRocque,K., Lamzaza,R., Landers,T., Lehozcy,J.,  
 Levine,R., Lieu,G., Locke,K., Macdonald,P., Marquis,N.,  
 McCarthy,M., McEwan,P., McGurk,A., McKernan,K., McHeeters,R.,  
 Meldrum,J., Meneus,L., Mihova,T., Miranda,C., Milenga,V., Morrow,J.,  
 Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,  
 O'Neil,D., Oliver,T.M., Oliver,J., Petersen,K., Pierre,N.,  
 Pisanic,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D.,  
 Roy,A., Santos,R., Schaeuf,S., Severy,P., Spencer,B.,  
 Stange-Thomann,N., Stojanovic,N., Subramanian,J.,  
 Tesfaye,S., Theodore,J., Tirrell,A., Travers,M., Trigilio,J.,  
 Vassiliev,H., Vieil,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J.,  
 Young,G., Zainoun,J., Zimmer,A. and Zody,M.  
 Direct Submission  
 Submitted (30-MAR-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

3 (bases 1 to 217346)  
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,  
 Anderson,S., Barna,N., Bastien,V., Beda,F., Boguslavskiy,L.,  
 Boukhalter,B., Brown,A., Burkett,G., Campopiano,A., Castle,A.,  
 Choepel,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P.,  
 Dearlano,K., Dewar,K., Diaz,J.S., Dodge,S., Ferreira,P.,  
 FitzHugh,W., Gage,D., Galegan,J., Olivar,T.M., Oliver,J.,  
 Peterson,K., Pierre,N., Pisanic,C., Pollara,V., Raymond,C., Rieback,M., Riley,R.,  
 Rogov,P., Rothman,D., Roy,A., Santos,R., Schaeuf,S., Severy,P.,  
 Sognez,C., Spencer,B., Stange-Thomann,N., Stojanovic,N.,  
 Strauss,N., Subramanian,A., Talomas,J., Tesfaye,S., Theodore,J.,  
 Tirrell,A., Travers,M., Trigilio,J., Vassiliev,H., Vieil,R.,  
 Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J.,  
 Zimmer,A. and Zody,M.  
 Direct Submission  
 Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA  
 On Nov 15, 2000 this sequence version replaced gi:11136831.  
 All repeats were identified using RepeatMasker:  
 Smit, A.F.A. & Green, P. (1996-1997)  
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

Center: Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: <http://www-seq.wi.mit.edu>  
 Contact: sequence\_submission@genome.wi.mit.edu  
 ----- Project Information  
 Center project name: L9166  
 Center clone name: 795\_B\_6  
 ----- Summary Statistics  
 Sequencing vector: M13; M7785; 31% of reads  
 Sequencing vector: Plasmid, M13; 69% of reads  
 Chemistry: Dye-terminator Big Dye; 100% of reads  
 Assembly program: Phrap; version 0.960731  
 Consensus Quality: 210748 bases at least Q40  
 Consensus Quality: 213655 bases at least Q30  
 Consensus Quality: 215058 bases at least Q20  
 Insert size: 194000; agarose-fp  
 Insert size: 216246; sum-of-contigs  
 Quality coverage: 11.9 in Q20  
 Quality coverage: 10.7 in Q20  
 \* NOTE: This is a working draft sequence. It currently consists of 12 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.  
 \* 1 8149: contig of 8149 bp in length  
 \* 8150 8249: gap of 100 bp  
 \* 8250 9592: contig of 1343 bp in length  
 \* 9593 9692: gap of 100 bp  
 \* 9693 10733: contig of 1041 bp in length  
 \* 10734 10833: gap of 100 bp  
 \* 10834 13519: contig of 2686 bp in length  
 \* 13520 13619: gap of 100 bp  
 \* 13620 17510: contig of 3891 bp in length  
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Qy			
Db	1945	TGAGACTCTGGTCAAGGGAAAAGATTATAACCAACGCTAACGGGAGAGATGAA	2004
Db	721	TGAGACTCTGGTCAAGGGAAAAGATTATAACCAACGCTAACGGGAGAGATGAA	780
Qy			
Db	2005	CTTGTGTTCTACATTGGTCACTTGGTCACTTGGTCACTTGGTCACTTGGTCACTTGGTCA	2064
Db	781	CTTGTGTTCTACATTGGTCACTTGGTCACTTGGTCACTTGGTCACTTGGTCACTTGGTCA	840
Qy			
Db	2065	AGGTGGATGACACGGGTTGGCAAAAGGTGACAACTTAGCTTGGCTTAAATCTCAA	2124
Db	841	AGGTGGATGACACGGGTTGGCAAAAGGTGACAACTTAGCTTGGCTTAAATCTCAA	900
Qy			
Db	2125	TCTTATACAGGTACTACCAACTTGGTCACTTGGTCACTTGGCTTAAATCTCAA	2184
Db	901	TCTTATACAGGTACTACCAACTTGGTCACTTGGCTTAAATCTCAA	960
Qy			
Db	2185	TATAATTGGTGAAGGGACCTACTCTGGAGAACTATTGTTAAATCTGGTCAAC	2244
Db	961	TATAATTGGTGAAGGGACCTACTCTGGAGAACTATTGTTAAATCTGGTCAAC	1020.
Qy			
Db	2245	AGTAAACAAATCTGCTGTTAAATAGCTGTTAACTTATCTAGCTGCAAACT	2304
Db	1021	AGTAAACAAATCTGCTGTTAAATAGCTGTTAACTTATCTAGCTGCAAACT	1080
Qy			
Db	2305	TAGATCTGAGGGCATACATCTGCAAGGCTTACTCTGGTCAACAAATCTGGTCAAAAGA	2364
Db	1081	TAGATCTGAGGGCATACATCTGCAAGGCTTACTCTGGTCAACAAATCTGGTCAAAAGA	1140
Qy			
Db	2365	TGGTCCAGAAAGAACCGTATATGCTT	2396
Db	1141	TGGTCCAGAAAGAACCGTATATGCTT	1172





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